

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**WARNING**

**ENVIRONMENTAL HAZARDS**

**DIRECTIONS FOR USE**

**STORAGE AND DISPOSAL**

**GENERAL INFORMATION**

**Griffex™ 5L** is a selective herbicide for the control of weeds in corn. It is a systemic herbicide that acts on the root system of the weed. It is effective against a wide range of weeds, including annual and perennial broadleaf weeds, grasses, and sedges. Griffex™ 5L is applied as a spray or as a soil application. It is safe for use on corn plants and is effective against weeds that are in the early stages of growth. Griffex™ 5L is a selective herbicide that acts on the root system of the weed. It is effective against a wide range of weeds, including annual and perennial broadleaf weeds, grasses, and sedges. Griffex™ 5L is applied as a spray or as a soil application. It is safe for use on corn plants and is effective against weeds that are in the early stages of growth.

**APPLICATION PROCEDURES**

**Griffex™ 5L** is applied as a spray or as a soil application. It is safe for use on corn plants and is effective against weeds that are in the early stages of growth. Griffex™ 5L is a selective herbicide that acts on the root system of the weed. It is effective against a wide range of weeds, including annual and perennial broadleaf weeds, grasses, and sedges. Griffex™ 5L is applied as a spray or as a soil application. It is safe for use on corn plants and is effective against weeds that are in the early stages of growth.

**Ground Application:** Apply Griffex™ 5L as a spray or as a soil application. It is safe for use on corn plants and is effective against weeds that are in the early stages of growth.

**Aerial Application:** Use only when the wind is light and the temperature is above 50°F. Apply Griffex™ 5L as a spray or as a soil application. It is safe for use on corn plants and is effective against weeds that are in the early stages of growth.

**Post-emergence Weed Control with Griffex™ 5L:** The addition of Griffex™ 5L to a tank mixture with a pre-emergence herbicide will provide quicker kill of weeds. However, the pre-emergence herbicide should be applied first and Griffex™ 5L applied later.

**Equipment Procedures for Griffex™ 5L and Emulsifiable Oil**

1. Turn on the engine and allow it to warm up for 5 minutes.
2. Fill the tank with water to the top.
3. With the agitator system operating, add Griffex™ 5L.
4. Add the emulsifiable oil.
5. Empty the tank and clean it thoroughly.
6. If an agitator system is used, keep it running for 5 minutes after the tank is empty.
7. Clean the sprayer thoroughly.

**Note**

1. Do not use Griffex™ 5L in combination with other herbicides.
2. Do not use Griffex™ 5L in combination with insecticides.
3. Do not use Griffex™ 5L in combination with fungicides.
4. Do not use Griffex™ 5L in combination with growth regulators.
5. Do not use Griffex™ 5L in combination with other chemicals.

**CORN**

Griffex™ 5L is a selective herbicide for the control of weeds in corn. It is a systemic herbicide that acts on the root system of the weed. It is effective against a wide range of weeds, including annual and perennial broadleaf weeds, grasses, and sedges. Griffex™ 5L is applied as a spray or as a soil application. It is safe for use on corn plants and is effective against weeds that are in the early stages of growth.

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Griffex™ 5L is a selective herbicide for the control of weeds in corn. It is a systemic herbicide that acts on the root system of the weed. It is effective against a wide range of weeds, including annual and perennial broadleaf weeds, grasses, and sedges. Griffex™ 5L is applied as a spray or as a soil application. It is safe for use on corn plants and is effective against weeds that are in the early stages of growth.

**Northern Nutsedge or Yellow Nutsedge:** Control: Broadcast 6.4 p.p.t.s of Griffex™ 5L. If grass is more than 2 weeks old, broadcast a second application 2-3 weeks after the first application.

**Quackgrass:** Control on Land Going Into Corn Production: Split Application: Broadcast a second application 2-3 weeks after the first application. Single Application: Broadcast 4 p.p.t.s of Griffex™ 5L. Post-emergence weed control with Griffex™ 5L: Broadcast 4 p.p.t.s of Griffex™ 5L. Aerial Application: Broadcast 3.2 p.p.t.s of Griffex™ 5L.

**PRECAUTIONS**

Griffex™ 5L is a selective herbicide for the control of weeds in corn. It is a systemic herbicide that acts on the root system of the weed. It is effective against a wide range of weeds, including annual and perennial broadleaf weeds, grasses, and sedges. Griffex™ 5L is applied as a spray or as a soil application. It is safe for use on corn plants and is effective against weeds that are in the early stages of growth.

**TABLE 2a  
Tank Mixtures with Simazine on Corn**

Griffex™ 5L (p.p.t.s)	Simazine (p.p.t.s)	Emulsifiable Oil (p.p.t.s)
6.4	1.0	1.0
6.4	1.0	2.0
6.4	1.0	3.0
6.4	1.0	4.0
6.4	1.0	5.0
6.4	1.0	6.0
6.4	1.0	7.0
6.4	1.0	8.0
6.4	1.0	9.0
6.4	1.0	10.0

**TANK MIXTURES ON**

Griffex™ 5L is a selective herbicide for the control of weeds in corn. It is a systemic herbicide that acts on the root system of the weed. It is effective against a wide range of weeds, including annual and perennial broadleaf weeds, grasses, and sedges. Griffex™ 5L is applied as a spray or as a soil application. It is safe for use on corn plants and is effective against weeds that are in the early stages of growth.

**SORGHUM**

Preplant or pre-emergence applications, nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier of Griffex™ 5L. Do not apply after corn has emerged as there is a danger of liquid fertilizers causing crop injury.

**Preplant:** Broadcast in the spring after plowing at the rate of 3.2 pints per acre, or after final seedbed preparation. If soil is tilled or worked after application, incorporation of Griffex™ 5L. Best results have been obtained when Griffex™ 5L is applied in two weeks prior to planting.

**Pre-emergence:** Apply during or shortly after planting prior to weed emergence at the rate indicated below.

**Post-emergence:** Apply before weeds exceed 1 1/2 inches in height at the rate indicated below.

**ACCEPTED**  
 NOV 17 1981  
 U.S. Environmental Protection Agency  
 Pesticide and Herbicide Act  
 Registration for the pesticide  
 Griffex™ 5L  
 EPA Reg. No. 1812-267

**Griffex™ 5L**

Griffex™ 5L may be applied either before planting, at planting or after planting at the rate indicated below:

**Preplant and pre-emergence applications:** nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier of Griffex™ 5L. Do not apply after corn has emerged as there is a danger of liquid fertilizers causing crop injury.

**Preplant:** Broadcast in the spring after plowing at the rate of 3.2 pints per acre, or after final seedbed preparation. If soil is tilled or worked after application, incorporation of Griffex™ 5L. Best results have been obtained when Griffex™ 5L is applied in two weeks prior to planting.

**Pre-emergence:** Apply during or shortly after planting prior to weed emergence at the rate indicated below.

**Post-emergence:** Apply before weeds exceed 1 1/2 inches in height at the rate indicated below.

Soil texture	Rate per acre of Griffex™ 5L		
	Broadcast in 10-40 gal of water A	20 inch band* in 5-20 gal of water A	13 inch band† in 4-14 gal of water A
Light soils: Sands, loamy sands, and sandy loams	3.2 pints	1.6 pints	1 pint
Medium soils: Silt and clay loams that are low in organic matter	3.8 pints	2 pints	1.2 pints
Heavy soils: Silt and clay loams with medium to high organic matter and clays	4.8 pints	2.4 pints	1.6 pints
Very heavy soils: High organic clays	4.8 pints	2.4 pints	1.6 pints

Based on 40-inch row spacing. For other band or row widths, adjust the rate in proportion to the area actually treated.

**Northern Nutgrass or Yellow Nutsedge (Cyperus esculentus) Control:** Broadcast 6.4 pints per acre preplant, pre-emergence, or post-emergence before nutgrass is more than 1 1/2 inches high. If applied before nutgrass begins growth, cultivate within 2-3 weeks. If applied after nutgrass has emerged, cultivate within 10-14 days.

**Crabgrass Control on Land Going Into Corn Production: Split Application:** Broadcast 3.2 pints per acre in the fall or spring and plow 2-3 weeks later. Broadcast a second application at the rate of 3.2 pints per acre in the spring before, during or after planting, but before weeds reach 1 1/2 inches high.

**Single Application:** Broadcast 4.8-6.4 pints per acre in the fall or spring, plow 1-3 weeks after application.

**Post-emergence weed control with Griffex™ 5L:** Broadcast 3.2 pints per acre in 20-40 gal of water per acre after emergence but before weeds reach 1 1/2 inches in height.

**Aerial Application:** Broadcast 3.2 pints of Griffex™ 5L and 1/2 gal. of emulsifiable oil in no more than 5 gal. of water per acre after weed emergence but before weeds reach 1 1/2 inches.

**PRECAUTIONS**

Do not apply more than 6.4 pints of Griffex™ 5L to corn in any one year.

Land treated with Griffex™ 5L should not be planted to any crop except corn until the following year or injury may occur.

Following harvest of a treated crop, plow (moldboard or disk plow) and thoroughly till the soil in fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of the rate used.

If Griffex™ 5L is applied after June 10, do not rotate with crops other than corn or sorghum the next year or injury may occur.

If Griffex™ 5L is used at a broadcast rate higher than 4.8 pints per acre for comparable rates in a band application, a crop of untreated corn or sorghum should precede the next rotational crop.

In the High Plains and Intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use Griffex™ 5L to control weeds in corn only when corn is to follow corn or a crop of untreated corn or sorghum. Do not precede with rotational crops. In western Minnesota and eastern parts of the Dakotas, Kansas, and Oklahoma, corn treated with Griffex™ 5L should not be followed with rotational crops. If broadcast rates applied was more than 3.2 pints per acre for comparable rates in a band application, injury may occur.

Do not plant sugar beets, tobacco, vegetables including dry beans, spring-seeded small grains, or small-seeded legumes and grasses the year following Griffex™ 5L application or injury may occur.

Do not graze treated area or feed treated forage to livestock for 21 days following application.

**TABLE 2a**

**Tank Mixtures with Simazine on Corn**

Soil Texture	1:1 Ratio*		1:2 Ratio**	
	This Product	Sim-Trol 9DF or Sim-Trol 4L	This Product	Sim-Trol 9DF or Sim-Trol 4L
Light, loamy sand, sandy loam	1.6 pt	1.1 lb 2 pt.	1 pt	1.4 lb. 2.67 pt
Medium, silt loam, silty clay loam, sandy clay loam, silty clay loam, silty clay, or silty clay with low organic matter	1.9 pt	1.3 lb	1.3 pt	1.7 lb
Heavy, silt loam, silty clay loam, sandy clay loam, silty clay, or silty clay with medium to high organic matter, and clay (including ark prairie soils - the Corn Belt)	2.4 pt	1.5 lb	1.5 pt	2.1 lb
Very heavy, high organic matter	3 pt	3 pt	3.84 pt	

**TANK MIXTURES ON**

**Dual® 8E**  
 Use as tank mixture for control of certain broadleaf and grass weeds. Refer to Dual® label for all directions, weeds controlled, precautions, and limitations.

**Sim-Trol 9DF or Sim-Trol 4L**  
 Use as tank mixture for control of many annual weeds including carpetweed, crabgrass, fall panicum, foxtail, lambsquarters, morningglory, pigweed, ragweed, and velvetleaf. Apply before planting, at planting, or after planting, but before crop and weeds emerge, at rates in

**For Season-long Weed Control! in Corn, Sorghum, and Certain Other Crops**

Contains 5 pounds active ingredient per gallon.

<b>ACTIVE INGREDIENTS:</b>	<b>53.0%</b>
Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine)	51.4%
Related compounds	1.6%
<b>INERT INGREDIENTS:</b>	<b>47.0%</b>
<b>TOTAL</b>	<b>100.0%</b>

**WARNING**

**KEEP OUT OF REACH OF CHILDREN**

If inhaled: Move patient to fresh air. Give artificial respiration if the patient is not breathing and seek medical attention.

If swallowed: Contact your local Poison Control Center, hospital or physician. If patient is unconscious, maintain breathing and heartbeat (cardiopulmonary resuscitation). If patient is conscious and alert, induce vomiting (syrup of ipecac or stimulate the back of the throat with a finger. Never give anything by mouth to an unconscious person.

If on skin: Remove contaminated clothing and wash with soap and water.

If in eyes: Flush with plenty of water for 15 minutes. Get medical attention if irritation persists. Note to Physician: There is no specific antidote for atrazine. If Griffex™ 5L is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

See Side Panel For Additional Precautionary Statements.



**GRIFFIN CORPORATION**  
 VALDOSTA, GEORGIA 31601

NET CONTENTS 2 1/2 Gallons  
 EPA REG. NO 1812-267  
 EPA EST. NO. 1812-GA-2

Table 2a. Use 1:1 ratio for control of above weeds. Use 1:2 ratio for expected heavy infestations of crabgrass and fall panicum. Apply in a minimum of 20 gal of water/A. Cultivate shallowly if weeds develop.

**Preplant:** Apply in spring during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation. For best results, apply within two weeks before planting.

**Pre-emergence:** Apply during or shortly after planting, but before crop and weeds emerge. Refer to Corn sections of this label and to Sim-Trol 9DF or Sim-Trol 4L label for further directions, limitations and cautions.

Soil texture  
 Sand to sandy loam, eroded slopes and soil low in organic matter. Other soils (shallow incorporation may improve). Based on 40-inch row spacing. Weeds to be controlled and soil texture.

Soil texture  
 Sand to sandy loam, eroded slopes and soil low in organic matter. Other soils (shallow incorporation may improve). Based on 40-inch row spacing. Weeds to be controlled and soil texture.

Soil texture  
 Sandy loams and heavier soils in Oklahoma, New Mexico, Texas, West Kansas, Colorado, and desert regions of Arizona and California only.

Soil texture  
 Based on 40-inch row spacing. Up to 100% control.

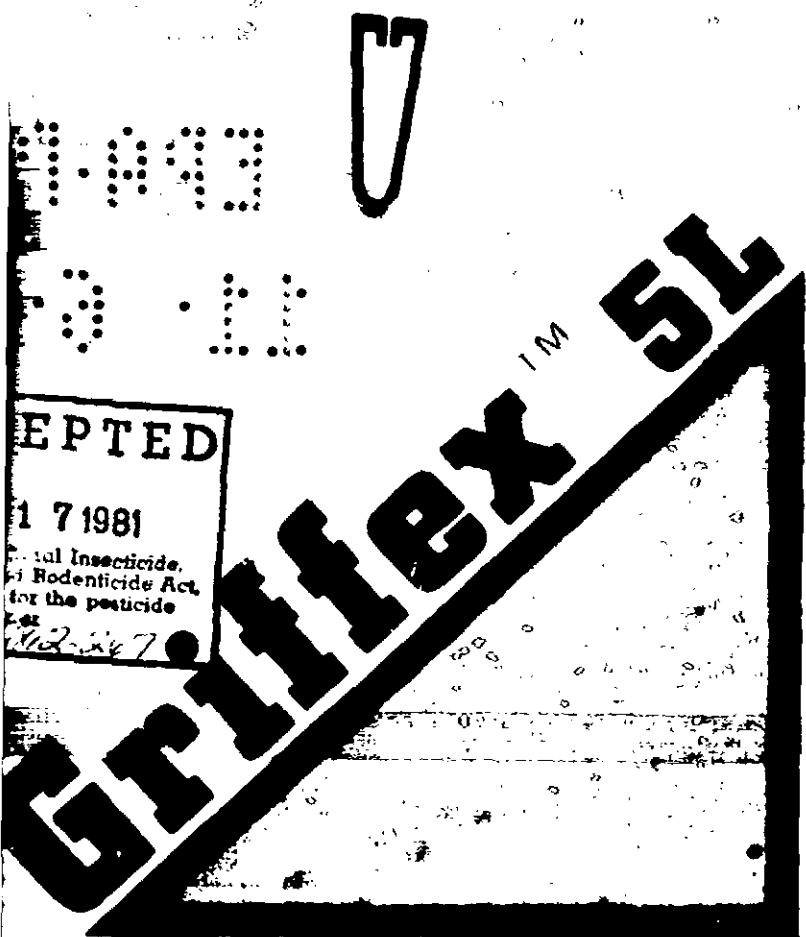
1. Heavy rains immediately after application of herbicide in seed sorghum should be avoided. Seed furrows should be covered.
2. Application made to sorghum growing in rows should be made to sorghum growth stage.
3. Do not plant any rotational crops.
4. Do not graze or feed treated forage to livestock for 21 days following application.
5. Following harvest, soil in fall or spring should be tilled to the rate used.

**Suggestions**

1. Sorghum or corn
2. All other rotational crops
3. When the broadleaf weeds are planted 15 months before

**TANK MIXTURES**  
 \*\*Igran® 80W  
 Use as tank mixture with Griffex™ 5L. Refer to Igran® 80W label for directions.

**Wheat-Sorghum Fertilizer**  
 This treatment contains 10% nitrogen. Following sorghum harvest, remove them with a harrow or similar implement into wheat stubble.



## SORGHUM AND SORGHUM-SUDAN HYBRIDS (GRAIN AND FORAGE TYPES)

Preplant or pre emergence (Eastern and Central Nebraska and Northeast Kansas Only)  
For preplant and pre emergence applications, nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for Griffex™ 5L. Do not apply after sorghum has emerged as there is danger of liquid fertilizers causing crop injury.

**Preplant:** Broadcast in the spring after plowing at the rate indicated in the table below. Application may be made before, during, or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation of Griffex™ 5L. Best results have been obtained when Griffex™ 5L is applied within two weeks prior to planting.

**Pre-emergence:** Apply during or shortly after planting prior to weed emergence at the rate indicated in the table below.

### Preplant and Pre emergence Application (In Eastern and Central Nebraska and Northeastern Kansas Only)

Soil texture	Rate per acre of Griffex™ 5L		
	Broadcast in 10-40 gal of water/A	20-Inch Band† in 5-20 gal of water/A	13-Inch Band† in 4-14 gal of water/A
Sand to sandy loam, eroded slopes and soils low in organic matter. Other soils (shallow incorporation may improve).	3-2-3-8 pints	1-6-2 pints	1-1-2 pints control

†Based on 40-inch row spacing. When making band applications, reduce the broadcast rate per acre in proportion to the area treated.

**Post-emergence:** For the control of broadleaves and grasses, apply post-emergence applications of Griffex™ 5L in no less than ten gallons of water per acre at the rate indicated in the table below. Weeds should not exceed 1 1/2 inches in height at application.

### Post-emergence Application†† (weeds should not be more than 1 1/2 inches high)

Weeds to be controlled and soil texture	Stage or height of sorghum at treatment	Rate per acre of Griffex™ 5L		
		Broadcast in 10-40 gal of water/A	20-Inch band† in 5-20 gal of water/A	13-Inch band† in 4-14 gal of water/A
Broadleaf and grass weeds				
Band or loamy sand		Do not use		
Sandy loam		See broadleaf weeds below		
Silt loam to Silty loam to sandy clay loam	Completely emerged	3-2-3-8 pints	1-6-2 pints	1-1-2 pints
Ohm and Pullman clay soils	At least 6 inches high	3-2-3-8 pints	1-6-2 pints	1-1-2 pints
Silty clay loams and heavier soils	Completely emerged	4-8 pints	2-4 pints	1-6 pints

### Post-emergence Application†† (weeds should not be more than 1 1/2 inches high)

Weeds to be controlled and soil texture	Stage or height of sorghum at treatment	Rate per acre of Griffex™ 5L		
		Broadcast in 10-40 gal of water/A	20-Inch band† in 5-20 gal of water/A	13-Inch band† in 4-14 gal of water/A
Broadleaf weeds				
Sandy loams and heavier soils in Oklahoma, New Mexico, Texas, West Kansas, Colorado, and desert regions of Arizona and California only	At least 6 inches high	2 pints plus 1/2 pint surfactant	1 pint plus 3/8 pint surfactant	1/2 pint plus 1/4 pint surfactant

†Based on 40-inch row spacing.  
††Up to 1000 ft.

**Post-emergence broadleaf weed control with Griffex™ 5L plus emulsifiable oil in water (New Mexico, Oklahoma, and Texas only):** Apply when sorghum is 6-10 inches high and before boot stage. Treat broadleaf weeds before they reach 6 inches.

**Ground Application:** Broadcast 2 pints of Griffex™ 5L and 1/2 gal. of emulsifiable oil in 20-40 gal. of water per acre.

**Aerial Application:** Broadcast 2 pints of Griffex™ 5L and 1/2 gal. of emulsifiable oil in no less than 5 gallons of water per acre.

## PRECAUTIONS

- Heavy rains immediately following application tend to result in excessive concentrations of herbicide in seed furrow, resulting in possible crop injury. Applications to furrow-planted sorghum should not be made until furrows are leveled (plowed-in). Deep planter marks or seed furrows should also be leveled before application.
- Application made to sorghum growing under stress caused by minor element deficiency or to sorghum growing on highly calcareous soils may result in crop injury.
- Do not plant any rotational crops other than those specified in the Suggestions For Rotational Crops Section below for 18 months following application.
- Do not graze or feed forage from treated areas for 21 days following application.
- Following harvest of a treated crop, plow (moldboard or disk-plow) and thoroughly till the soil in fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of the rate used.

### Suggestions For Rotational Crops:

- Sorghum or corn may be planted the year following treatment.
- All other rotational crops may be planted 18 months after application.
- When the broadcast rate used does not exceed 2 1/2 pints per acre, fall wheat may be planted 15 months after application.

## TANK MIXTURES ON GRAIN SORGHUM

\*\*Igran™ 80W

Use as tank mixture for control of certain broadleaf and grass weeds in grain sorghum. Refer to Igran 80W label for all directions, weeds controlled, precautions, and limitations.

## CHEMICAL FALLOW

### Wheat Sorghum Fallow

This treatment controls annual broadleaf and grass weeds following wheat harvest and in the following sorghum crop when grown under minimum tillage.

Apply 4-8 pt. to wheat stubble immediately following wheat harvest. If weeds are present, combine them with a sweep plow or other suitable implement after application. Plant sorghum at 40-inch row spacing. At the time of planting, apply 1/2 pint of Griffex™ 5L per acre.

planter or a planter leaving a sweep plow or other

Precautions: (1) Use only cropping sequence must

Note: Do not graze or feed to than those on this label with

**Wheat-Corn-Fallow (KS, MO)**  
This product controls cheatgrass, thistle, wild lettuce, wild sunflower. Weed control may extend into Apply with ground equipment. Follow directions for use, above, substituting corn for

**Wheat-Fallow-Wheat (CO)**  
For preemergence control of pennycress, kochia, mustard, during fallow period of a water/A for ground application. Control of pigweed and wild sunflower once during same fallow period. If weeds are present at application, herbicide before or after. Use tillage to control weeds. Product applied alone or in 12 months or more after applica

Precautions: (1) Do not graze rocky outcroppings, or Rosebud and Canyon Soils. Do not treat soils with r

Note: Do not graze treated

**Rangeland**  
This product controls certain mustard, sagewort, and other major problem weed; use for ground applications, use for Aerial applications, use See "Application Procedure"

**Establishment of perennial**  
Apply 1.2 - 1.6 pt/A in fall. May be seeded when rain falls as those made by a deep furrow seeding. However, to provide treated areas should not be

Renovation of existing stands (CO, KS, MT, NE, ND, SD)  
Spring treatment in Southern Do not apply to crested and Do not graze treated areas following application. Apply only to Warm Season Perennial Ryegrass Switchgrass. For control of many annual (and yellow), lambsquarters, For ground application use. Use only on loam, silt loam, matter.

New seeding: Apply 1.6 pt/A seedbed. Plant 1/2 inch deep. A conventional drill is used. For best results, cultipack. Avoid clipping switchgrass. Established stands: Apply 1.2 Rotational crops: See "Rotational Crops" section. Note: Do not cut for hay, 10 days seeding or 3 months following year.

\*Dual is a trademark of  
\*\*Igran is a trademark of

For control of many annual fireweed, Florida paintbrush, Broadcast 1.6-3.2 quarts in 20-40 gal of water/A at time of planting or rotation. Do not graze or feed to animals until weeds have emerged as directed. For control of emerged weeds, water/A as a directed spray. Thoroughly cover weed foliage.

Precautions: (1) Do not graze to any one crop of corn

For control of alexandergrass use only one of the following:

- Apply 3-2 quarts in 20-40 gal of water/A with one or two broadleaf herbicides to sugarcane and weeds. Weed 1.5 inches in height.
- Apply 1-3 times as near as banded over-the-top, do not exceed 2.5 inches in height.

Griffin Corporation warrants this label and is reasonably fit to inherent risks referred to by the inherent risks or merchantability of the use or handling of this product. Buyer and User accept it as

## For Season-long Weed Control in Corn, Sorghum, and Certain Other Crops

Contains 5 pounds active ingredient per gallon.

ACTIVE INGREDIENTS:	53.0%
Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine)	51.4%
Related compounds	1.6%
INERT INGREDIENTS:	47.0%
<b>TOTAL</b>	<b>100.0%</b>

## WARNING

KEEP OUT OF REACH OF CHILDREN

Inhaled: Move patient to fresh air. Give artificial respiration if the patient is not breathing and seek medical attention.

Swallowed: Contact your local Poison Control Center, hospital or physician. If patient is unconscious, maintain breathing and heartbeat (cardiopulmonary resuscitation). If patient is conscious and alert, induce vomiting (syrup of ipecac or stimulate the back of the throat with finger. Never give anything by mouth to an unconscious person.

On skin: Remove contaminated clothing and wash with soap and water.

In eyes: Flush with plenty of water for 15 minutes. Get medical attention if irritation persists. Note to Physician: There is no specific antidote for atrazine. If Griffex™ 5L is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

See Side Panel For Additional Precautionary Statements.

**Griffin**

**GRIFFIN CORPORATION**  
VALDOSTA, GEORGIA 31601

NET CONTENTS 2 1/2 Gallons  
EPA REG. NO. 1812 267  
EPA EST. NO. 1812 GA-3

Use 1:1 ratio for control of above weeds. Use 1:2 ratio for expected heavy infestation of crabgrass and fall panicum. Apply in a minimum of 20 gal of water/A. Cultivate only if weeds develop.

Apply in spring during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation. For best results, apply within two weeks before planting.

Pre-emergence: Apply during or shortly after planting, but before crop and weeds emerge. For Corn sections of this label and to Sun, Tru, 900 or Sun, Tru, 400 for further directions and cautions.

## SORGHUM AND SORGHUM-SUDAN HYBRIDS (GRAIN AND FORAGE TYPES)

Preplant or pre emergence (Eastern and Central Nebraska and Northeast Kansas Only)  
For preplant and pre emergence applications, nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for Griffex™ 5L. Do not apply after sorghum has emerged as there is danger of liquid fertilizers causing crop injury.

**Preplant:** Broadcast in the spring after plowing at the rate indicated in the table below. Application may be made before, during, or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation of Griffex™ 5L. Best results have been obtained when Griffex™ 5L is applied within two weeks prior to planting.

**Pre emergence:** Apply during or shortly after planting prior to weed emergence at the rate indicated in the table below.

Preplant and Pre emergence Application  
(In Eastern and Central Nebraska and Northeast Kansas Only)  
Broadleaf and grass weed control

Soil texture	Rate per acre of Griffex™ 5L		
	Broadcast in 10-40 gal of water A	20 inch Band in 5-20 gal of water A	13 inch Band in 4-14 gal of water A
Sand to sandy loam, eroded slopes and soils low in organic matter	3.2-3.8 pints	1.6-2 pints	1-1.2 pints (control)
Other soils (shallow incorporation may improve)		Do not use	

†Based on 40-inch row spacing. When making band applications, reduce the broadcast rate per acre in proportion to the area treated.

**Post-emergence:** For the control of broadleaves and grasses, apply post emergence applications of Griffex™ 5L in no less than ten gallons of water per acre at the rate indicated in the table below. Weeds should not exceed 1 1/2 inches in height at application.

Post emergence Application††  
(weeds should not be more than 1 1/2 inches high)

Weeds to be controlled and soil texture	Stage or height of sorghum at treatment	Rate per acre of Griffex™ 5L		
		Broadcast in 10-40 gal of water/A	20 inch band in 5-20 gal of water A	13 inch band in 4-14 gal of water A
Broadleaf and grass weeds				
Sandy loam to silty loam	Completely emerged	3.2-3.8 pints	1.6-2 pints	1-1.2 pints
Silty loam to sandy clay loam	At least 6 inches high	3.2-3.8 pints	1.6-2 pints	1-1.2 pints
Clay and Pullman clay soils	Completely emerged	4.8 pints	2.4 pints	1.6 pints
Silty clay loams and heavier soils				

Post-emergence Application††  
(weeds should not be more than 1 1/2 inches high)

Weeds to be controlled and soil texture	Stage or height of sorghum at treatment	Rate per acre of Griffex™ 5L		
		Broadcast in 10-40 gal of water A	20 inch band in 5-20 gal of water A	13 inch band in 4-14 gal of water A
Broadleaf weeds				
Sandy loams and heavier soils in Oklahoma, New Mexico, Texas, West Kansas, Colorado, and desert regions of Arizona and California only	At least 6 inches high	2 pints plus 1/4-1/2 pint surfactant	1 pint plus 3/8-1/2 pint surfactant	1/2 pint plus 1/4-1/2 pint surfactant

†Based on 40 inch row spacing

††Up to close in

**Post-emergence broadleaf weed control with Griffex™ 5L plus emulsifiable oil in water** (New Mexico, Oklahoma, and Texas only): Apply when sorghum is 6-10 inches high and before boot stage. Treat broadleaf weeds before they reach 6 inches.

**Ground Application:** Broadcast 2 pints of Griffex™ 5L and 1/2-1 gal. of emulsifiable oil in 20-40 gal. of water per acre.

**Aerial Application:** Broadcast 2 pints of Griffex™ 5L and 1/2 gal. of emulsifiable oil in no less than 5 gallons of water per acre.

### PRECAUTIONS

- Heavy rains immediately following application tend to result in excessive concentrations of herbicide in seed furrow, resulting in possible crop injury. Applications to furrow-planted sorghum should not be made until furrows are leveled (plowed-in). Deep planter marks or seed furrows should also be leveled before application.
- Application made to sorghum growing under stress caused by minor element deficiency or to sorghum growing on highly calcareous soils may result in crop injury.
- Do not plant any rotation crops other than those specified in the Suggestions For Rotational Crops Section below for 18 months follow application.
- Do not graze or feed forage from treated areas for 21 days following application.
- Following harvest of a treated crop, plow (moldboard or disk-plow) and thoroughly till the soil in fall or spring to minimize possible injury to rotational spring-seeded crops regardless of the rate used.

### Suggestions For Rotational Crops:

- Sorghum or corn may be planted the year following treatment.
- All other rotational crops may be planted 18 months after application.
- When the broadcast rate used does not exceed 2 1/2 pints per acre, fall wheat may be planted 15 months after application.

## TANK MIXTURES ON GRAIN SORGHUM

\*\*Igran® 80W

Use as tank mixture for control of certain broadleaf and grass weeds in grain sorghum. Refer to Igran 80W label for all directions, weeds controlled, precautions, and limitations.

### CHEMICAL FALLOW

#### Wheat Sorghum Fallow

This treatment controls annual broadleaf and grass weeds following wheat harvest and in the following sorghum crop when grown under minimum tillage. Apply 4.8 pt. to wheat stubble immediately following wheat harvest. If weeds are present, remove them with a sweep plow or other suitable implement after application. Plant sorghum into wheat stubble the following spring with minimum disturbance of the soil. Use a surface

planter or a planter leaving a shallow furrow. If weeds are present at planting, remove them with a sweep plow or other suitable implement before planting.

Precautions: (1) Use only on silt loam or finer textured soil. (2) Wheat-sorghum-fallow cropping sequence must be followed. (3) Do not apply following sorghum harvest.

Note: Do not graze or feed forage from treated area to livestock. Do not plant any crop other than those on this label within 18 months following treatment.

#### Wheat-Corn-Fallow (KS, NE)

This product controls cheatgrass (downy brome, chess), Kochia, mustards, pigweed, Russian thistle, wild lettuce, wild sunflower, and volunteer wheat during period after wheat harvest. Weed control may extend into following corn crop grown under minimum tillage. Apply with ground equipment only.

Follow directions for use, notes, and precautions in the "Wheat-Sorghum-Fallow" section above, substituting corn for references to sorghum.

#### Wheat-Fallow-Wheat (CO, KS, MT, NE, ND, SD, and WY)

For preemergence control of cheatgrass (downy brome, chess), common lambsquarters, field pennycress, Kochia, mustard, Russian thistle, wild lettuce, and suppression of volunteer wheat during fallow period of a wheat fallow-wheat rotation, apply 1/2-1 1/2 pts. in 10-40 gal. of water/A for ground application, on all soils except those listed under "Precautions." For control of pigweed and wild sunflower, use the higher rate. Apply to stubble ground. Treat only once during same fallow period.

If weeds are present at application and this product is used alone, use either an approved contact herbicide before or after treatment, or tillage after treatment.

Use tillage to control weeds which escape during fallow period. Till before planting. For this product applied alone or in tank mixture with Paraquat CL, plant at least 2 inches deep and 12 months or more after application.

Precautions: (1) Do not use on sand soil. (2) Do not treat eroded hillsides, caliche and rocky outcroppings, or exposed calcareous subsoil. (3) Do not treat soils of the Rosebud and Canyon Series in western NE and adjoining counties in CO and WY. (4) Do not treat soils with calcareous surface layers. (5) Avoid spray overlap.

Note: Do not graze treated areas within 6 months after application.

#### Rangeland

This product controls certain weeds, including cheatgrass (downy brome, chess), tumble mustard, sawwort, and annual or common broomweed. Use lower rate where cheatgrass is major problem weed, use higher rate for other weeds.

For ground applications, use a minimum of 10 gal. of water/A.

For Aerial applications, use a minimum of 5 gal. of water/A.

See "Application Procedures" for additional information.

#### Establishment of perennial range grasses (CA, ID, NV, OR, UT, WA)

Apply 1.2-1.6 pt/A in fall after rains begin but before ground freezes. Perennial range grass may be seeded when rain begins the next fall following treatment. Plant in deep furrows such as those made by a deep furrow rangeland drill. Treated areas may be grazed 7 months after seeding. However, to provide sufficient time for establishment of desirable range grasses, treated areas should not be grazed until the fall following seeding.

Renovation of existing stands of perennial range grasses Fall treatment in Central Great Plains (CO, KS, MT, NE, ND, SD, WY): Apply 1.2-1.6 pt/A in fall before ground freezes.

Spring treatment in Southern Great Plains (OK, TX): Apply 1.6 pt/A in spring before April 30. Do not apply to crested and intermediate wheatgrasses. Do not cut or feed range grass hay. Do not graze treated areas within 7 months following fall application or 3 months following spring application. Apply only once per year.

Warm Season Perennial Range Grasses - Midwest

Switchgrass

For control of many annual broadleaf grass weeds including cheatgrass, foxtails (giant, green, and yellow), lambsquarters, pigweed, ragweed, smartweed, and velvetleaf.

For ground application use a minimum of 15 gal. of water/A.

Use only on loam, silt loam, silty clay loam, and silty clay soils with at least 1 percent organic matter.

New seeding: Apply 1 qt/A after planting but before weeds emerge. Prepare a good, firm seedbed. Plant 1/2 inch deep with a grassland drill (preferred method) or a conventional drill. If a conventional drill is used on prepared seedbeds, remove all tension from the disk openers. For best results, cultipack or roll after planting. Clip weeds that escape in July or August. Avoid clipping switchgrass seedlings.

Established stands: Apply 1.6 qt/A in April or early May, before weed emergence.

Rotational crops: See "Rotational crops" in Corn section.

Note: Do not cut for hay. Do not graze treated areas within 4 months following application at seeding or 3 months following application to established switchgrass. Treat only once per year.

\*Dual is a trademark of CIBA-GEIGY for metolachlor U.S. patent No. 3,937,730

\*Igran is a trademark of CIBA-GEIGY for terbutryn U.S. Patent No. 3,634,062

## SUGARCANE

For control of many annual broadleaf and grass weeds, including amaranths, crabgrass, fireweed, Florida's paintbrush, foxtails, junglerice and wiregrass:

Broadcast 1.6-3.2 quarts in 20-50 gallons of water, A for adequate coverage of the soil surface at time of planting or ratooning, but before cane emerges. One additional application may be made over cane as it emerges, and two additional applications may be made interline after emergence as directed sprays.

For control of emerged pelitory weed (Florida only): Apply .6-.9 pints in at least 40 gallons of water, A as a directed spray. Add 2 quarts of surfactant for each 50 gallons of spray. Thoroughly cover weed foliage.

Precautions: (1) Do not apply after "close-in". (2) Do not apply more than 10 quarts/A to any one crop of cane.

For control of alexandergrass, large crabgrass, pelitory (artillery) weed and spiny amaranth, use only one of the following methods of planting or ratooning (Florida only).

- Apply 3.2 quarts in 20-50 gallons of water/A, preemergence, broadcast or banded. Follow with one or two broadcast or banded over the top applications as needed, postemergence to sugarcane and weeds, at 1.6 quarts in 20-50 gallons of water/A. Treat before weeds exceed 1.5 inches in height.
- Apply 1.3 times as needed, at 1.6 quarts in 20-50 gallons of water/A, either broadcast or banded over the top, post emergence to sugarcane and weeds. Treat before weeds exceed 2.5 inches in height.

Griffin Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. Griffin Corporation makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty. In no case shall Griffin Corporation or the seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Griffin Corporation and the seller offer this product and the Buyer and User accept it subject to the foregoing conditions of Sale and Warranty.