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100-661

(Front Cover)

Igran® 4L

Herbicide

For weed control in grain sorghum and
noncrop land areas

ACCEPTED
MAR 17 1986
EPA Reg. No. 100-661

Active Ingredients:

Terbutryn: 2-tert-butylamino-4-ethylamino-6-methylthio-s-triazine	45.2%
Related compounds	2.4%
<hr/> Inert Ingredients:	<hr/> 52.4%
Total:	100.0%

EPA Reg. No. 100-

Igran 4L contains 4 lbs. active ingredient per gal.

Keep Out of Reach of Children.

CAUTION

See additional precautionary statements at end of label booklet.

See directions for use inside booklet.

2 1/2 Gallons
U.S. Standard Measure

CIBA-GEIGY

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Agricultural Division
CIBA-GEIGY Corporation
Greensboro, NC 27419

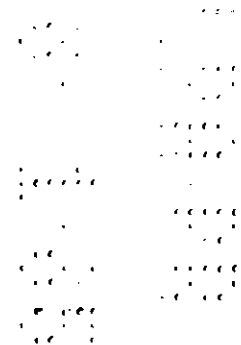
DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY 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. CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. CIBA-GEIGY and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.



DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

FAILURE TO FOLLOW THE PRECAUTIONS AND DIRECTIONS FOR USE ON THIS LABEL MAY RESULT IN CROP INJURY, POOR PERFORMANCE, AND/OR ILLEGAL RESIDUES

General Information

Igran 4L is a selective herbicide for control of many annual broadleaf weeds and grasses. The weeds controlled are as follows:

Sorghum	Noncrop Areas
annual groundcherry	barnyardgrass
carpetweed	blue mustard
crabgrass	carpetweed
foxtail	chickweed
junglerice	China lettuce
kochia	cocklebur
lambsquarters	oogfennel
morningglory	fiddleneck
pigweed	field pennycress
puncturevine	green foxtail*
ragweed	gromwell
Russian thistle	henbit
smartweed	kochia
velvetleaf	nightshade
barnyardgrass (watergrass)	pepperweed
	pigweed
	purslane
	tarweed
	teaweed
	tumble mustard
	tumbleweed
	white sweet clover
	wild buckwheat*
	wild mustard

*In fallowed areas, Igran 4L gives partial control of green foxtail and wild buckwheat.

Following many years of continuous use of this product and chemically related products, biotypes of some of the weeds listed on this label have been reported which cannot be effectively controlled by this and related herbicides. Where this is known or suspected and weeds controlled by this product are expected to be present along with resistant biotypes, we recommend the use of this product in registered combinations or in sequence with other registered herbicides which are not triazines. If only resistant biotypes are expected to be present, use a registered non-triazine herbicide. Consult with your State Agricultural Extension Service for specific recommendations.

Igran 4L is applied before weeds emerge and enters weeds through their roots after germination. Preemergence effectiveness depends, therefore, on rainfall or irrigation to move Igran 4L into the soil. Very dry soil conditions may necessitate a shallow cultivation. When applied to emerged weeds, Igran 4L provides foliar knockdown of existing weeds and residual control of later germinating weeds.

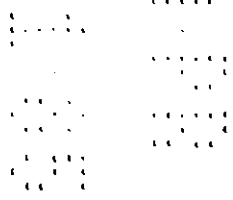
In each case where a range of rates is given, the lower rate should be used on relatively coarse-textured soils or soils low in organic matter; the higher rate should be used on relatively fine-textured soils or soils high in organic matter.

For Igran 4L alone on sorghum, nonpressurized liquid fertilizer may replace all or part of the water as carrier for ground application.

Application Procedures

Ground Application: Use conventional ground sprayers equipped with nozzles that provide accurate and uniform application. Be certain that nozzles are uniformly spaced and are the same size. Calibrate sprayer before use and recalibrate at the start of each season and when changing carriers. Unless otherwise specified, use a minimum of 10 gals. of spray mixture/A for all applications (with or without surfactant) with ground equipment.

Use a pump with capacity to (1) maintain 35-40 psi at nozzles, (2) provide sufficient agitation in tank to keep mixture in suspension, and (3) to provide a minimum of 20% bypass at all times. Use centrifugal pumps which provide propeller shear action for dispersing and mixing this product.



Compatibility Test: Since liquid fertilizers can vary, even within the same analysis, always check compatibility with herbicide(s) each time before use. Be especially careful when using complete suspension or fluid fertilizers as serious compatibility problems are more likely to occur. Commercial application equipment may improve compatibility in some instances. The following test assumes a spray volume of 25 gals. per acre. For other spray volumes, make appropriate changes in the ingredients. Check compatibility using this procedure:

1. Add 1 pint of fertilizer to each of 2 one-quart jars with tight lids.
2. To one of the jars add 1/4 tsp. or 1.2 milliliters of a compatibility agent approved for this use, such as Compex® or Unite® (1/4 tsp. is equivalent to 2 pts. per 100 gals. spray). Shake or stir gently to mix.
3. To both jars add the appropriate amount of herbicide(s). If more than one herbicide is used, add them separately with dry herbicides first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix. The appropriate amount of herbicides for this test follows:

Dry herbicides: For each pound to be applied per acre, add 1.5 level teaspoons to each jar.

Liquid herbicides: For each pint to be applied per acre, add 0.5 teaspoon or 2.5 milliliters to each jar.

4. After adding all ingredients, put lids on and tighten, and invert each jar ten times to mix. Let the mixtures stand 15 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the two jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (A) slurry the dry herbicide(s) in water before addition, or (B) add 1/2 of the compatibility agent to the fertilizer and the other 1/2 to the emulsifiable concentrate or flowable herbicide before addition to the mixture. If incompatibility is still observed, do not use the mixture.

Mixing Procedures - All Uses: (1) Be sure sprayer is clean and not contaminated with any other materials, or crop injury or sprayer clogging may result. (2) Fill tank 1/4 full with clean water, nitrogen solution, or complete liquid fertilizer. (3) Start agitation. (4) Be certain that the agitation system is working properly and creates a rippling or rolling action on the liquid surface. (5) Pour product directly from the container into tank. (6) Continue filling tank until 90% full. Increase agitation if necessary to maintain surface action. (7) Add emulsifiable oil, oil concentrate, or tank mix herbicide(s) after this product is thoroughly suspended. (8) Finish filling tank. (9) Empty tank as completely as possible before refilling to prevent buildup of oil or emulsifiable concentrate residue. Maintain agitation to avoid separation of materials. (10) If an oil or emulsifiable concentrate film starts to build up in tank, drain it and clean with strong detergent solution or solvent. (11) Clean sprayer thoroughly immediately after use by flushing system with water containing a detergent.

Grain Sorghum

Igran 4L may be applied alone or in tank mix combination with either AAtrex or Milogard prior to planting with shallow incorporation, at planting time, or immediately following planting, but before weeds and sorghum emerge. Igran 4L may also be applied in tank mix combination with AAtrex and paraquat where grain sorghum will be planted directly into cover crop, established sod, or in previous crop residues. Apply during or after planting, but before sorghum emerges. Do not apply to emerged sorghum. When applying preplant with shallow incorporation, apply within 2 weeks of planting and incorporate into the top 1-2 inches of soil using a rolling cultivator, rotary hoe, spike-tooth harrow, or similar implement. For sorghum planted on beds, apply and incorporate after bed formation.

In case of planting failures, sorghum may be replanted into soil previously treated with Igran 4L or Igran combinations. Do not apply a second broadcast application, or injury may occur. If Igran 4L or Igran combinations are applied in a band, and sorghum is replanted in the untreated row middles, Igran 4L or Igran combinations may be applied in a band to the second planting.

If irrigation is necessary, irrigate within the first 36 hours after planting or wait until after the sorghum is at least two inches tall, or injury may occur.

Igran 4L Alone: Apply Igran 4L at the rate indicated in Table 1 or 2.

Table 1

Grain Sorghum

Annual Broadleaf and Grass Weed Control

Region	Soil Texture	Broadcast Rate Per Acre
All sorghum growing regions of the U.S.; except states shown below	sand, loamy sand	DO NOT USE
	sandy loam to loam	2 qts.
	silt loam to clay	2.4 qts.
Eastern Colorado, South Dakota, Illinois, Iowa, Kansas, Minnesota, Missouri, and Nebraska	sand	DO NOT USE
	loamy sand	1.6-2 qts.
	sandy loam to loam	2 qts.
	silt loam to clay	2.4 qts.

Table 2

Grain Sorghum

Annual Broadleaf Weed Control Only

Region	Soil Texture	Broadcast Rate Per Acre
Kansas, Oklahoma, New Mexico, Texas, and the desert regions of Arizona and California	sand	0.8 qts.
	loamy sand	1.2 qts.
	all other soil textures	1.6 qts.

Igran 4L + Milogard or Igran 4L + AAtrex: A tank mixture of Igran 4L + Milogard or Igran 4L + AAtrex can be used in the regions indicated below, for more consistent weed control than when Igran 4L is used alone. Apply the tank mixture at the rate indicated in Table 3. Do not use either combination on sand or loamy sand soils.

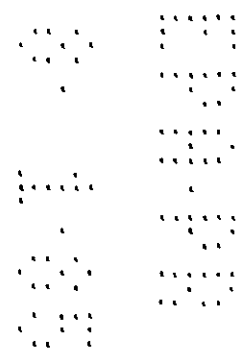


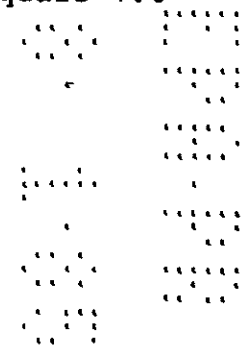
Table 3

Grain Sorghum

Annual Broadleaf and Grass Weed Control

Region	Soil Texture	Broadcast Rate Per Acre		
		Igran 4L	Milogard Maxx® 90*	AAtrex Nine-O®*
Illinois, Iowa, Eastern Kansas, Minnesota, Missouri, and Eastern and Central Nebraska, South Dakota	sandy loam	1.6 qts.	0.45 lb.	DO NOT USE
	loam and finer	1.6-2 qts.	DO NOT USE	0.9 lb.
Central Kansas, Western Nebraska, Oklahoma, and Texas	sandy loam	1.6 qts.	0.45 lb.	DO NOT USE
	loam and finer	1.6-2 qts.	0.9 lb.	DO NOT USE
Eastern Colorado, and Western Kansas	sandy loam and finer	1.6 qts.	0.45 lb.	DO NOT USE

*When using Milogard 4L, Milogard 80W, AAtrex 4L, AAtrex 4LC or AAtrex 80W, use equivalent rates. 0.9 lb. of Nine-O or Maxx 90 equals 1.0 lb. of 80W. 0.9 lb. of Nine-O or Maxx 90 equals 1.6 pts. of 4L or 4LC.



Igran 4L + AAtrex + Paraquat: Apply the tank mixture at the rates indicated in Table 7. Refer to paraquat label concerning directions, limitations, and cautions for use of that product. Apply in 20-40 gals. diluted spray per acre. Add a nonionic surfactant such as X-77® at 1 to 2 pts. per 100 gals. diluted spray. Use only water or nitrogen solutions as a carrier. Add Igran to spray tank first, mixing thoroughly in carrier. Next, add AAtrex, paraquat and X-77. Maintain agitation of carrier at all times.

Table 4

Grain Sorghum

Broadleaf and Grass Control

Soil Texture	Broadcast Rate Per Acre		
	Igran 4L	AAtrex Nine-0*	Paraquat
COARSE: Sand, loamy sand	DO NOT USE	DO NOT USE	DO NOT USE
MEDIUM: Loam, silt loam, silt	1.6 qts.	0.9 lb.	1.0-2.0 pts.
FINE: Silty clay loam, sandy clay loam, clay loam, sandy clay, silty clay, clay	2 qts.	1.8 lbs.	1.0-2.0 pts.

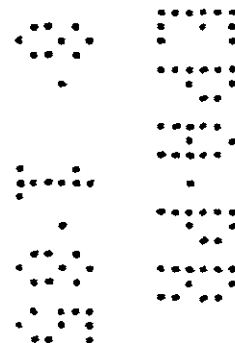
*When using AAtrex 4L, AAtrex 4LC or AAtrex 80W, use equivalent rates. 0.9 lb. of Nine-0 equals 1.6 pts. of 4L or 4LC. 0.9 lb. of Nine-0 equals 1 lb. of 80W.

Winter Weed Control in Texas: For postemergence control of winter weeds only, such as henbit (purple top), seedling dock, and annual thistle on fall bedded land in the Texas Gulf Coast and Blacklands of Texas, apply 0.6-0.8 qt. of Igran 4L per acre, postemergence to the weeds in the fall or winter to land that will be planted to sorghum the following spring. For best results, add a suitable surfactant, such as X-77, at the rate of 0.5% of the spray volume, an emulsifiable oil at the rate of 1.0% of the spray volume, or an oil concentrate at the rate of 1 qt. per acre.

Normal programs of weed control may be used in the following sorghum crop.

Note: To avoid crop injury or illegal residues, do not plant any crop except grain sorghum the spring following this treatment.

Precautions: Igran 4L alone and Igran 4L combinations - To avoid crop injury, 1) apply only on sorghum planted after the minimum soil temperature has reached 60°F or more for at least three consecutive days, 2) do not wait more than two days after planting to apply, 3) do not apply over emerged sorghum, 4) do not apply to millets, sudan-sorghum hybrids, or sorghum breeding stocks, 5) do not apply to sorghum growing on alkali soils, caliche outcroppings, or where cuts, fills, or erosion have exposed calcareous subsoil, 6) do not make a broadcast application to sorghum planted in furrows deeper than two inches to avoid concentration of herbicide in the seed furrow. Width of the band should not exceed the width of the bottom of the furrow, and 7) do not apply a second application to the same crop. 8) Rainfall or overhead irrigation at the time of sorghum emergence and until sorghum is 2 inches tall may cause crop injury.



Suggestions for Crop Rotation:

Following Igran 4L Alone:

- 1) Sorghum stubble should be plowed (disk or moldboard) prior to planting the next crop.
- 2) Rotational crops may be planted as follows to avoid illegal residues:
 - 4 months: winter wheat
 - 7 months or longer: all other crops
 following normal agricultural practices and planting dates.

Following Igran 4L + AAtrex and Igran 4L + AAtrex + paraquat: To avoid crop injury: 1) land treated with Igran 4L + AAtrex should not be planted to any crop except corn or sorghum until the following year. 2) do not rotate with crops other than corn or sorghum the next year if Igran 4L was applied after June 10. 3) do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded legumes, and grasses the following year. 4) Injury may occur to soybeans planted in north central and northwest Iowa, south central and southwest Minnesota, southeast South Dakota, and northeast Nebraska the year following an application on soils having a calcareous surface layer.

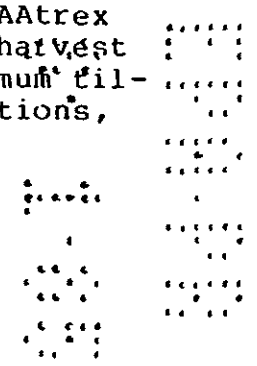
Following Igran 4L + Milogard:

Sorghum, cotton, or corn may be planted 12 months after application. All other crops may be planted 18 months after application.

When applying Igran combinations, see the General Information section and caution statements on the Igran label, and precautions listed on the AAtrex and Milogard labels for further information.

Chemical Fallow

Wheat-Sorghum-Fallow: AAtrex 4L (4LC), AAtrex 80W, or AAtrex Nine-O may be used to control annual weeds after wheat harvest and in the following sorghum crop when grown under minimum tillage. Refer to the AAtrex label for directions, precautions, and limitations.



Tank Mixtures for Wheat-Sorghum-Fallow

If weeds are present at time of application (in late July or August following wheat harvest), Igran 4L may be tank mixed with AAtrex to control existing annual weeds. Broadcast 1.6-2 qts. of Igran 4L plus 6 pts. of AAtrex 4L (4LC) (or 3.75 lbs. of AAtrex 80W, or 3.3 lbs. of AAtrex Nine-O) per acre. Add 1-2 pts. of a nonionic surfactant (such as X-77) per 100 gals. of spray mixture. Add Igran 4L to the spray tank first and thoroughly mix with the water. Then add the AAtrex, followed by the surfactant. Use the 2 qt. rate of Igran 4L if weeds are 4-6 inches tall. This mixture will not control weeds taller than 6 inches. Plant sorghum into the 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 the time of sorghum planting, remove them with a sweep plow or other suitable implement before planting. Refer to the AAtrex label for further directions, precautions, and limitations.

Note: To avoid illegal residues, do not graze or feed forage from treated areas.

Wheat-Corn-Fallow (Kansas and Nebraska): AAtrex 4L (4LC), AAtrex 80W, or AAtrex Nine-O may be used to control annual weeds after wheat harvest and in the following corn crop when grown under minimum tillage. Refer to the AAtrex label for directions, precautions, and limitations.

Tank Mixtures for Wheat-Corn-Fallow (Kansas and Nebraska)

If weeds are present at time of application (in late July or August following wheat harvest), Igran 4L may be tank mixed with AAtrex and applied to control existing annual weeds. Follow directions for use in the "Wheat-Sorghum-Fallow" section above, substituting corn for references to sorghum.

Wheat-Fallow-Wheat (Colorado, Kansas, Montana, Nebraska, North Dakota, South Dakota, and Wyoming): AAtrex 4L (4LC), AAtrex 80W, or AAtrex Nine-O may be used for preemergence control of annual weeds during the fallow period of a wheat-fallow-wheat rotation. If AAtrex is applied alone in late summer after wheat harvest, Igran 4L may be applied the following spring at 1.6-2 qts./A to control escaping weeds. Add 1-2 pts. of a nonionic surfactant (such as X-77) per 100 gals. of spray mixture. Use the 2 qt. rate if weeds are 4-6 inches tall. Igran 4L will not control weeds taller than 6 inches. To avoid crop injury or illegal residues, treat with Igran 4L only once during the same fallow

period, and plant wheat no sooner than 4 months after application of the Igran 4L alone and no sooner than 12 months after the AAtrex application. Refer to the AAtrex label for directions, precautions, and limitations.

Tank Mixtures for Wheat-Fallow-Wheat (Colorado, Kansas, Montana, Nebraska, North Dakota, South Dakota, and Wyoming)

If weeds are present at time of application (normally in late July or August following wheat harvest), Igran 4L may be tank mixed with AAtrex to control existing annual weeds. Broadcast 1.6-2 qts. of Igran 4L plus 1-2 pts. of AAtrex 4L (4LC) (or 0.6-1.25 lbs. of AAtrex 80W, or 0.5-1.1 lbs. of AAtrex Nine-0) per acre. Add 1-2 pts. of a nonionic surfactant (such as X-77) per 100 gals. of spray mixture. Add Igran 4L to the spray tank first and thoroughly mix with the water. Then add the AAtrex, followed by the surfactant. Use the 2 qt. rate of Igran 4L if weeds are 4-6 inches tall. This mixture will not control weeds taller than 6 inches. Treat with this tank mixture only once during the same fallow period. Use tillage to control weeds which escape during the fallow period. Plant wheat no sooner than 12 months after application. Refer to the AAtrex label for further directions, precautions, and limitations.

Note: To avoid illegal residues, do not feed forage or graze treated areas to livestock for six months following application.

Wheat-Fallow-Wheat, Sorghum-Fallow-Wheat (Great Plains, including Oklahoma, Northern Texas)

Apply Igran 4L preemergence or postemergence at 1.6-2 qts./A in the spring at the start of the fallow period (as soon as possible following harvest in a winter wheat-fallow-wheat rotation). Use the higher rate when weeds are 4-6 inches tall. Igran 4L will not control weeds taller than 6 inches. Postemergence weed control is improved by adding a nonionic surfactant, such as X-77 at 1-2 pts. per 100 gals. of spray mixture, an emulsifiable oil at 2-4 qts./A or an oil concentrate at 1-2 pts./A. Treat only once during the fallow period, and do not plant wheat sooner than 4 months after application (2 months in Kansas, Oklahoma, and northern Texas). Shallow cultivation or paraquat at 1-2 pts./A + X-77 surfactant at 1-2 pts. per 100 gals. of spray solution may be used to control weeds which escape or reinfest during the fallow season.

Note: To avoid illegal residues, do not feed green forage or graze treated areas for 6 months following application.

Noncrop Land

Igran 4L provides weed control on railroad rights-of-way and on other noncrop land sites.

DO NOT USE THIS PRODUCT FOR NONSELECTIVE WEED CONTROL ON LAND TO BE CROPPED, NEAR ADJACENT DESIRABLE TREES, SHRUBS, OR PLANTS, OR IN GREENHOUSES, OR INJURY MAY OCCUR.

Apply Igran 4L to emerged actively growing weeds not more than 6 inches in height at 2-2.4 qts./A. Apply in at least 20 gals. of water per acre. A surfactant such as X-77, duPont WK, or Tronic may be added to the spray mixture at the rate of 2 qts./100 gals. of spray (0.5% of spray volume). Cover weeds thoroughly with spray for good control. For extended weed control, Igran 4L may be applied in tank mix combination with Atratul® formulations 90 and 80W, and Princep® formulations (4L, 80W, and Caliber® 90). Refer to the Atratul and Princep labels for use instructions for these products.

Note: Agitate Igran and Igran tank mixtures during the tank filling and spraying process. Empty the spray tank during the spraying operation.

STORAGE AND DISPOSAL

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

Pesticide: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container: Triple rinse (or equivalent), or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.



For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call (919)292-7100 day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

Statement of Practical Treatment

If in Eyes: Immediately flush with plenty of water. Get medical attention if irritation develops or persists.

If on Skin: Wash with plenty of soap and water. Get medical attention if irritation develops or persists.

NOTE TO PHYSICIAN: There is no specific antidote for Igran 4L. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous slurry or activated charcoal may be considered.

Environmental Hazards

Do not contaminate domestic or irrigation water supplies, or lakes, streams, or ponds. Do not apply directly to water or wetlands.

Atratol® trademark of CIBA-GEIGY

AAtrex® trademark of CIBA-GEIGY for atrazine

Bladex® trademark of Shell Chemical Company for cyanazine

Caliber® trademark of CIBA-GEIGY

Compex® trademark of KALO Agricultural Chemicals, Inc.

Igran® trademark of CIBA-GEIGY for terbutryn

Maxx® trademark of CIBA-GEIGY

Milogard® trademark of CIBA-GEIGY for propazine

Nine-O® trademark of CIBA-GEIGY

Princep® trademark of CIBA-GEIGY for simazine

Unite® trademark of Hopkins Agricultural Chemical Company for compatibility agent HA-914

X-77® trademark of KALO Agricultural Chemicals, Inc.

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190121

(Back Cover)

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Herbicide

For weed control in grain sorghum and noncrop land areas

Active Ingredients:

Terbutryn: 2-tert-butylamino-4-ethylamino-6-methylthio-s-triazine	45.2%
Related compounds	2.4%
<u>Inert Ingredients:</u>	<u>52.4%</u>
<u>Total:</u>	<u>100.0%</u>

EPA Reg. No. 100-

Igran 4L contains 4 lbs. active ingredient per gal.

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