19713-76 04/08/2002

Please read instructions on	<u>reverse before comple</u>	rting form.		Form Abr	<u> provec</u>	1. OMB No	<u>, 2070-006</u> 0	O. Approval expires 2-28-9
	ι	United States				Registr	ration	OPP Identifier Number
<b>SEPA</b>	Environmenta		- ,			Amend	lment	259579
	Washi	ington, DC 2040	60		~	Other		203013
		Applicatio	n for Pestic	ide - Sec	tion	1		
1. Company/Product Number				Product Man			3. Pr	oposed Classification
19713-76			JIM T	OMPKINS				None Restricted
4. Company/Product (Name DREXEL ATRAZINE 9			PM# 25/H	lerbicide Bra	anch	J		
5. Name and Address of Ap	oplicant (Include ZIP Co	ode)		•				FIFRA Section 3(c)(3)
	5.0 Pa	*****	l i	my product i	is sim	hilar or ider	ntical in cor	mposition and labeling
Drexel Chemical Co		c 13327	to: EPA	Reg. No		Miles de la companya		
Check if thi	is is a new addrass		Prod	uct Name _	·			· 
			Section -					
Amendment - Explain	in haloser		V	7	tdal b	els in repson:	to to all	
			<u></u>	Agency lette	ter dat	ited	3/1	5/2002
Resubmission in resp	ponse to Agency letter	dated		"Me Too" A	Applier	ation.		
Notification - Explain	ı below.			Other - Expl	lain br	elow.		
Explanation: Use addition	nal page(s) if necessar	~ (For section	I and Section II.)	<u>.</u>			WHI.	
One (1) copy of the final printhis submission. The require	ited label (76SP-0402++	r) is submitted for	or your record and '	file. Label char	nges a	are detailed o	out on the co	ver letter accompanying
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		1.10-200	Section - I	fil _				
1. Material This Product Wil	il Be Packaged in:							
Child-Resistant Packaging	Unit Packaging		Water Soluble F	Packaging		2. Type o	f Container	
Yes	Yes		Yes				Metal	
□ No	No No		No				Plestic Glass	
* Certification must	If "Yes"	No. per	If "Yes"	No. per		1	Paper	
be submitted	Unit Packaging wgt.	container	Package wgt	container	<i>†</i>		Other (Sp	pecify)
3. Location of Net Contents	Information	4. Size(s) Retai	ail Container	<u> </u>	5. Lo	cation of La	abel Directio	ne .
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			Section - I'	<u>v</u>				
1. Contact Point IComplete	items directly below fo	or identification	of individual to b	e contacted,	if nec	essery, to p	rocess this	epplication.)
Name		1	Title	<del></del>			Telephone	No. (Include Area Code)
LUZ G PIWONKA			REGISTRATION	I MANAGER	,	·	(901) 774-	4370
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4. Typed Name		<b>)</b> 5.	i. Date				1	
LUZ G PIWONKA			Apr	ril 2, 2002	1 1	•	1	

April 2, 2002

Document Processing Desk (FINAL)
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
Rm 266A, Crystal Mall 2
1921 Jefferson Davis Hwy.
Arlington, VA 22202

ATTN: Mr. Jim Tompkins, PM 25/Herbicide Branch

Re: Submission of Final Printed Label per EPA's Letter Dated March 15, 2002 DREXEL ATRAZINE 90DF (EPA Reg. No. 19713-76)

Dear Mr. Tompkins,

Reference is made to the above. Herewith, please find:

- 1. Completed EPA Form 8570-1.
- One (1) copy of the final printed label (76SP-0302++) with lined out text removed for your record and file.

Please take note of the following changes per your 1/15/02 letter:

- i) Under PPE for 'Handlers who may be exposed to the concentrate......or other tasks', chemical resistant-gloves made of waterproof material......polyvinyl chloride' was revised to "chemical-resistant gloves such as polyethylene or polyvinyl chloride".
- ii) In the Agricultural use Requirements box, 'protective eyewear" was reinstated.
- 3. Certification Statement per PR Notice 98-10

If you have questions/clarification regarding this submission, I can be reached at (901) 774-4370. My e-mail address is <a href="mailto:lpiwonka@drexchem.com">lpiwonka@drexchem.com</a>.

Thank you.

Respectfully,

DREXEL CHEMICAL COMPANY

Luz ©Piwonka

**Registration Manager** 

1700 Channel Avenue • Post Office Box 13327 • Memphis, Tennossee, 381 3-0327 Phone: (901) 774-4370 • Fax: (901) 774-4666 • E-Mail: drexchem@bellsbuth.net

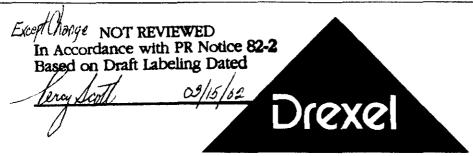
SINCE1972

### RESTRICTED USE PESTICIDE

(Ground and Surface Water Concerns)

For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

This product is a Restricted Use Herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground and surface water



# Atrazine 90DF

Herbicide

For season-long weed control in Chemical fallow, Conifers, Com, Fallowland, Guava, Lawns, Macadamia nuts, Sorghum, Sugarcane and Turf.

### **ACTIVE INGREDIENTS:**

Atrazine	85.5%
Related Compounds	4.5%
OTHER INGREDIENTS:	10.0%
TOTAL:	100.0%

### **KEEP OUT OF REACH OF CHILDREN** CAUTION

See FIRST AID Below

EPA Reg. No. 19713-76 EPA Est. No. 19713-MS-1

**Net Contents:** 

### FIRST AID

### IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice
- · Have person sip a glass of water if able to swallow
- . Do not induce vomiting unless told to do so by a poison control center or
- Do not give anything by mouth to an unconscious or convulsing person.

### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing
- Rinse skin immediately with plenty of water for 15 to 20 minutes

### IF IN EYES:

- . Hold eye open and rinse slowly and gently with water for 15 to 20 minutes
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

### IF INHALED:

- Move person to fresh air.
- · If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed. Avoid breathing of dust. Do not take internally. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed in the next column. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Handlers who may be exposed to the dilute through application or other tasks must wear: Long-sleeved shirt and long pants, chemical-resistant gloves such as polyethylene or

(Continued)

### PRECAUTIONARY STATEMENTS (Cont.)

polyvinyl chloride and chemical-resistant footwear plus socks. Handlers who may be exposed to the concentrate through mixing, loading, application or other tasks must wear: Longsleeved shirt and long pants, chemical-resistant gloves such as polyethylene or polyvinyl chloride, chemical-resistant footwear plus socks and protective eyewear.

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.

### **USER SAFETY RECOMMENDATIONS**

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### **ENVIRONMENTAL HAZARDS**

Atrazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Atrazine has been found in groundwater. Users are advised not to apply atrazine to Sand and Loamy sand soils where the water table (groundwater) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

Operations that involve mixing, loading, rinsing or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rainwater that may fall on the pad. Surface water shall not be ailowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading sites. States may have in effect additional requirements regarding well-head setbacks and operational area containment.

> Manufactured By: **Drexel Chemical Company** P.O. BOX 13327, MEMPHIS, TN 38113-0327 SINCE 1972

> > · 76SP-0302++ ATRAZINE 90DF Page 1 of 9

4 7 11

### **ENVIRONMENTAL HAZARDS (Cont.)**

This pesticide is toxic to aquatic invertebrates. For terrestrial uses, do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product may not be mixed/loaded or used within 50 feet of all wells including abandoned wells, drainage wells and sinkholes. This product may not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied aerially or by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66-foot buffer or set-back from runoff points must be planted to crop or seeded with grass or other suitable crop.

Note: Add this statement to all container sizes 50 pounds and higher. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. TILE-TERRACED FIELD CONTAINING STANDPIPES

To ensure protection of surface water from runoff through standpipes and tile outlets in terraced fields, one of the following options may be used:

- Do not apply this product within 66 feet of standpipes in tileoutletted terraced fields.
- Apply this product to the entire tile-outletted terraced field and immediately incorporate it to a depth of 2 to 3 inches in the entire tile-outletted terraced field.
- Apply this product to the entire tile-outletted terraced field under a no-till practice only when high crop residue management practices are used. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during or after crop harvest.

### **GENERAL INFORMATION**

ATRAZINE 90DF Herbicide will control most annual Broadleaf and Grass weeds in Corn, Sorghum, Sugarcane and certain other crops as specified on this label. This product may be applied before or after weeds emerge.

In each case where a range of rates is given, the lower rate should be used on Coarse textured soil and soils low in organic matter and the higher rate should be used on Fine textured soil and soils high in organic matter. 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 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.

Since this product acts mainly through root absorption, its effectiveness depends on moisture to move it into the root zone. Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control.

This product is non-corrosive to equipment and metal surfaces, non-flammable, and has low electrical conductivity. Avoid using this product near adjacent desirable plants or in greenhouses or injury may occur. To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

Note: The Seller does not recommend the use of this product in combination with other herbicides or oils except as specifically described on the label or in literature published by the Seller.

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

Do not apply this product through any type of irrigation system.

### **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 gallons of spray mixture per acre for all pre-plant incorporated, pre-plant surface, pre-emergence and post-emergence applications (with or without oil or surfactant) with ground equipment.

Use a pump with capacity to: 1) Maintain 35 to 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. The pump should provide a minimum of 10

gallons per minute per 100 gallon tank size circulated through a correctly positioned sparger tube or jets.

Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on the suction side of the pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and boom and where required, at the nozzles. Check nozzle manufacturer's recommendations. For band application, calculate the amount to be applied per acre as follows:

<u>Band width in inches</u>

Row width in inches

x

broadcast rate
per acre

amount needed
per acre in field

Aerial Application: Use aerial application only where broadcast applications are specified. Apply in a minimum of 1 gallon of water for each pound of this product applied per acre. For post-emergence treatments on Corn and Sorghum, apply recommended rate in a minimum of 2 gallons of water per acre. Avoid applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Avoid application to humans or animals. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

THIS PRODUCT IN WATER OR LIQUID FERTILIZER APPLICATIONS Nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for pre-emergence and pre-plant applications of this product on Corn and Sorghum. Check the compatibility of this product with liquid fertilizer and/or nitrogen solution as shown below before use. Do not apply in nitrogen solution or complete liquid fertilizer after Corn or Sorghum emerges or crop injury may occur.

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 gallons 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.
- To one of the jars, add 0.25 teaspoon or 1.2 milliliters of a compatibility agent approved for this use, such as Compex® or Unite® (0.25 teaspoon is equivalent to 2 pints per 100 gallons of 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 re-mixed 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 one-half of the compatibility agent to the fertilizer and the other one-half of the emulsifiable concentrate or flowable herbicide before addition to the mixture. If incompatibility is still observed, do not use the mixture.

APPLICATION IN WATER PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE Adding emulsifiable oil (petroleum-derived, petroleum-derived oil concentrate or single or mixed crop-derived oil concentrate) to post-emergence water-based sprays in Corn and Sorghum may improve weed control. However, under certain conditions, the use of either type of oil may seriously injure the crop. To minimize this possibility, observe the following directions.

### Use one of the following properly emulsified:

- A suitable oil concentrate containing at least 1% but not more than 20% suitable emulsifier or surfactant blend.
- 2. Petroleum-derived oil containing at least 1% suitable emulsifier.

Note: In the event of a compatibility problem when mixing oil with this product and water, a compatibility agent such as Compex® or Unite® should be used. Any of the above oils contaminated with water or other materials can cause compatibility problems and/or crop injury.

### MIXING PROCEDURES (ALL USES)

- Be sure sprayer is clean and not contaminated with any other materials or crop injury or sprayer clogging may result.
- Fill tank one-fourth full with clean water, nitrogen solution or complete liquid fertilizer.
- 3. Start agitation.
- Be certain that the agitation system is working properly and creates a rippling or rolling action on the liquid surface.

- 5. Pour this product directly from bag into tank.
- Continue filling tank until 90% full. Increase agitation if neces-6. sary to maintain surface action.
- Add emulsifiable oil, oil concentrate or tank mix herbicide(s) after this product is thoroughly suspended.
- Finish filling tank.
- 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.
- Clean sprayer thoroughly immediately after use by flushing system with water containing a detergent.

### DIRECTIONS FOR USE

### RESTRICTED USE PESTICIDE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product through any type of irrigation system. 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 (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS. Do not enter or allow worker entry into treated areas during the REI of 12 hours. Exception: If the product is soil-injected or soilincorporated, 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 WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, chemical-resistant gloves such as polyethylene or polyvinyl chloride and chemical-resistant footwear plus socks and protective eyewear.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

### ROTATIONAL CROPS (All Uses)

- 1. Land treated with this product should not be planted to any crop except Corn or Sorghum until the following year or injury may occur.
- 2. If this product is applied after June 10, do not rotate with crops other than Corn or Sorghum the next year or injury may occur.
- 3. In the High Plains and Intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use only when Corn or Sorghum is to follow Corn or Sorghum or when a crop of untreated Corn or Sorghum is to precede other rotational crops.
- 4. In Western MN and Eastern parts of the Dakotas, NE and KS, Corn treated with this product should not be followed with Soybeans if the broadcast rate applied was more than 2.2 pounds per acre (or comparable rate in a band) or injury to Soybeans may occur.
- 5. Injury may occur to Soybeans planted the year following an application of this product on soils having a calcareous surface layer.
- 6. Do not plant Sugar beets, Tobacco, Vegetables (including Dry beans), Spring-seeded small grains or Small-seeded legumes and Grasses the year following application of this product or injury may occur.

THIS PRODUCT APPLIED ALONE-CORN OR GRAIN SORGHUM Pre-plant Surface-Applied, Pre-plant Incorporated or Pre-emergence (or Post-emergence at 2.2 pounds per acre with Oil).

Broadleaf or Grass Weeds Controlled		
Annual morningglory	Mustard	
Barnyardgrass* (Watergrass)	Nightshade	
Cocklebur**	Plaweed	
Giant foxtail**	Purslane	
Green foxtail*	Ragweed	
Groundcherry	Sicklepod**	
Jimsonweed	Velvetleaf* (Buttonweed)	
Kochia	Wild oats	
Lambsquarters	Witchgrass* (Panicum capillare)	
Large (Hairy) crabgrass**	Yellow foxtail*	

<sup>\*</sup>Partial control only on Medium and Fine textured soils

Post-emergence with Emulsifiable Oil or Oil Concentrate in Water

Broadleaf Weeds Controlled				
Annual morningglory	Pigweed			
Cocklebur	Ragweed			
Jimsonweed	Smartweed			
Lambsquarters	Velvetleaf* (Buttonweed)			
Mustard	Wild buckwheat			

Where there are State/Local requirements regarding atrazine use (including lower maximum rates and/or set-backs) which are different from the label, the more restrictive/protective requirements must be followed.

Certain states may have established rate limitations within specific geographical areas. Consult your State Lead Pesticide Control Agency for additional information. It is a violation of this label to deviate from State regulations.

#### CORN

This product may be applied either before planting, at-planting or after planting as indicated.

### PRE-PLANT SURFACE-APPLIED

Broadleaf and Grass Control: Use on Medium and Fine textured soils with minimum-tillage or no-tillage systems only in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, WI and WY. Apply the recommended rate of this product shown in "TABLE 1" up to 45 days prior to planting. If unsatisfactory length of weed control results from adverse environmental conditions following early treatment, a follow-up application of an appropriately labeled herbicide may be used. If the follow-up treatment includes atrazine, do not exceed the labeled rate for Corn indicated in "TABLE 1". On Coarse textured soils, do not apply more than two weeks prior to planting.

if weeds are present at the time of treatment, apply in tank mix combination with a contact herbicide (for example, paraquat or glyphosate). Observe directions for use, precautions and restrictions on the label of the contact herbicide.

Note: To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting or weed control will be diminished.

#### PRE-PLANT INCORPORATED

Broadleaf and Grass Weed Control: Broadcast in the Spring after plowing at the rate indicated in "TABLE 1". Application may be made before, during or after final seedbed preparation. Avoid deep incorporation of this product. For best results, apply within two weeks prior to planting.

### PRE-EMERGENCE OR AT-PLANTING

Broadleaf and Grass Weed Control: Apply during or shortly after planting prior to weed emergence at the rate indicated in "TABLE 1".

### **POST-EMERGENCE**

Broadleaf and Grass Weed Control: Apply before weeds exceed 1.5 inches in height and before Corn exceeds 12 inches in height at rate recommended in "TABLE 1".

### TABLE 1

For Control of Broadleaf and Grass Weeds in Corn\* For All Soil Applications Prior to Crop Emergence

### On Highly Erodible Soils\*\*

If conservation tillage is practiced leaving at least 30% of the soil covered with plant residue at-planting, apply 2.2 pounds per acre as a broadcast spray. (If the soil coverage with plant residue is less than 30% at-planting, a maximum of 1.8 pounds per acre may be applied.)

### On Solls Not Highly Erodible\*

Apply 2.2 pounds per acre as a broadcast spray.

\*Broadleaf control (Eastern CO, Western KS, Western NE, NM, OK Panhandle, West TX and Eastern WY): On Sand, Loarny sand, Sandy loarn, mild to strongly alkaline soil and all recently leveled soil, apply no more than 1.3 pounds per acre, either pre-plant, pre-plant incorporate or pre-emergence. On other soils in these areas, apply rate in "TABLE 1" for Broadleaf and Grass control.

\*As defined by the Soil Conservation Service (SCS).

### FOR POST-EMERGENCE APPLICATION

If no atrazine was applied prior to Corn emergence, apply 2.2 pounds per acre broadcast. If a post-emergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 pounds active ingredient (2.8 pounds of this product) per acre per calendar year.

Where there are State/Local requirements regarding atrazine use (including lower maximum rates and/or greater set-backs) which are different from the label, the more restrictive/protective requirements must be followed. Certain states may have established rate limitations within specific geographical areas. Consult your State Lead Pesticide Control Agency for additional information. It is a violation of this label to deviate from State use regulations.

<sup>\*</sup>Partial control only

POST-EMERGENCE WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER—Add the following volume of one of the type oils indicated for aerial or ground application unless the oil label specifies otherwise:

Type of Oil	Ground Application per Acre	Aerial Application per Acre
Oil Concentrate (Crop or Petroleum-derived)	1 qt.	0.5 to 1 qt.
Petroleum-derived oil	1 gal.	2 qts.

Note: Crop-derived or petroleum-derived oil concentrates should contain at least 1%, but not more than 20%, suitable emulsifier or surfactant blend. Petroleum-derived oils should contain at least 1% suitable emulsifier. Broadleaf and Grass Control: For post-emergence control of those weeds listed under "PRE-PLANT INCORPORATED AND PRE-EMERGENCE", broadcast 2.2 pounds per acre plus emulsifiable oil or oil concentrate after weed emergence, but before weeds reach 1.5 inches in height and before Corn exceeds 12 inches in height.

Broadleaf Control: For post-emergence control of those weeds listed under "POST-EMERGENCE WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER", broadcast 1.3 pounds per acre plus emulsifiable oil or oil concentrate before Lambsquarters and Pigweed reach 6 inches in height and before all other weeds reach 4 inches in height. A cultivation may be necessary if all weeds are not controlled or if weeds regrow.

### USE PRECAUTIONS FOR APPLICATIONS OF THIS PRODUCT PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER TO CORN

- Do not use oil in sprays of this product when Corn is under stress from prolonged cold, wet weather, poor fertility or other factors or when Corn is wet and succulent from recent rainfall, as crop injury may occur.
- Do not use oils in sprays when treating inbred lines or any breeding stock as injury may occur.
- Adding other insecticides, herbicides, liquid fertilizers or other materials is not recommended, because they may cause compatibility problems or crop injury.
- 4. Store and handle emulsifiable oil and oil concentrate carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank.
- Do not exceed 2.5 pounds active ingredient (2.8 pounds of this product) per acre per calendar year.
- Post-emergence application to Corn must be made before Corn exceeds 12 inches in height.

### TANK MIXTURE WITH THIS PRODUCT FOR CORN

This product may be mixed with these herbicides for control of certain Broadleaf and Grass weeds in Corn:

Propachlor

Alachior
Alachior + glyphosate
Alachior + paraquat

Metolachlor + simazine + glyphosate Metolachlor + simazine + paraquat Paraquat

Butylate 6.7 E Metolachior Metolachior + glyphosate

Simazine
Simazine + glyphosate
Simazine + paraguat

Metolachior + paraquat Metolachior + simazine

Use tank mix directions appearing on the labels of the above herbicides when tank-mixing with this product. Observe all precautions and limitations on labeling of products used in a particular tank mix.

Note: When the labels of the above herbicides refer to Atrazine 80W, use equivalent rates of this product. One pound of 80W equals 0.9 pound of 90DF.

### THIS PRODUCT PLUS SIMAZINE 4L OR SIMAZINE 80W

In addition to the weeds listed under "THIS PRODUCT APPLIED ALONE - CORN OR GRAIN SORGHUM - Pre-plant Surface - Applied, Pre-plant Incorporated or Pre-emergence", this combination also controls Carpetweed, Crabgrass and Fall panicum. Broadcast tank mix before planting, at-planting or after planting, but before crop and weeds emerge, at rates in "TABLE 2". Use the 1:1 ratio for control of most weeds. Use the 1:2 ratio for expected heavy infestations of Crabgrass and Fall panicum. Cultivate shallowly if weeds develop.

### PRE-PLANT SURFACE-APPLIED

Use on Medium and Fine textured soils with minimum-tillage or no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, WI and WY.

Apply the recommended rate of this product and simazine shown in "TABLE 2" up to 45 days prior to planting. Refer to "THIS PROD-UCT APPLIED ALONE" section for information if weeds should develop following early treatment. On Coarse textured soils, do not apply more than 2 weeks prior to planting. Refer to the "THIS PRODUCT ALONE - PRE-PLANT SURFACE-APPLIED" section of the Corn label for additional details.

If weeds are present at time of treatment, apply in a tank mix combination with a contact herbicide (for example, paraquat or glyphosate). Observe directions for use, precautions and restrictions on the label of the contact herbicide.

Note: To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting or weed control will be diminished.

PRE-PLANT INCORPORATED: Apply to the soil and incorporate in the Spring before, during or after final seedbed preparation. Avoid deep incorporation. For best results, apply within 2 weeks prior to planting.

PRE-EMERGENCE: Apply during or shortly after planting, but before crop and weeds emerge.

TABLE 2 Tank Mixes with Simazine 4L or 80W on Corn					
	Broadcast Rate per Acre				
	1:1 F	Ratio*	1:2 R	latio**	
Soil Texture	This, Product	Simazine 4L or 80W1	This Product	Simazine 4L or 80W1	
COARSE: Sand, Loamy sand, Sandy loam	1.1 lbs.	2 pts. or 1.25 tbs.	0.75 lb.	2.6 pts. or 1.67 lbs.	
MEDIUM: Loam, Silt loam, Silt, Clay loam, Sandy clay loam, Silty clay loam, Sandy clay, or Silty clay with low organic matter	1.3 lbs.	2.4 pts. or 1.5 lbs.	0.9 lb.	3.2 pts. or 2 lbs.	
FINE: Loam, Sitt loam, Sitt, Clay loam, Sandy clay loam, Sitty clay loam, Sandy clay, or Sitty clay with medium to high organic matter and Clay (including dark prairie soils of the Com Bett)	1.6 lbs.	3 pts. or 1.8 lbs.	1.1 lbs	3.84 pts. or 2.4 lbs.	

\*For control of most weeds.

"For control of expected heavy infestations of Crabgrass and Fall panicum.

When using Simazine 90DF, use equivalent rates. One pound of Simazine 80W equals 0.9 pounds of Simazine 90DF.

Refer to "CORN" sections of this label and to Simazine 4L or Simazine 80W label for further directions, limitations and precautions.

THIS PRODUCT PLUS SIMAZINE 4L OR 80W PLUS PARAQUAT For kill of existing vegetation and residual Weed control where Corn will be planted directly into a cover crop, established sod or in previous crop residues, apply 1.2 to 2.2 pounds of this product plus 2 to 4 pints of Simazine 4L or 1.25 to 2.5 pounds of Simazine 80W, or 1.1 to 2.2 pounds of Simazine 90DF plus a suitable amount of paraguat per sprayed acre prior to, during or after planting, but before crop emergence. Use the lower rates of atrazine and simazine on Light soils and the higher rates on Heavy clay soils. Use 20 to 60 gallons of diluted spray per sprayed acre. Add Surf-Ace 820 or another nonionic surfactant at the rate of 8 fluid ounces per 100 gallons of diluted spray. Add this product to the spray tank while agitating, then add the simazine, paraquat and Surf-Act 820. Continue agitation during application. Use the higher rate of paraguat if existing vegetation is 4 to 6 inches tall. This mixture will not control weeds taller than 6 inches. Refer to paraquat and simazine labels for further limitations and precautions.

THIS PRODUCT PLUS SIMAZINE 4L OR 80W PLUS GLYPHOSATE When applied as recommended under the conditions described, this tank mixture controls many emerged weeds, and gives pre-emergence control of many Annual weeds when Corn will be planted directly into a cover crop, established or in previous crop residues.

Apply this tank mixture in 20 to 60 gallons of water per acre immediately before, during or after planting, but before crop emergence. As density of stubble, crop residue or weeds increases, spray gallonage and rate should be increased within the recommended ranges to ensure complete coverage.

Annual Weeds: Apply atrazine and simazine to actively growing Grasses and Broadleaf weeds that are 6 inches tall at the rates given in "TABLE 3" plus 1 quart of glyphosate per acre. If the weeds are over 6 inches tall, increase the rate of glyphosate to 1.5 quarts. Perennial Weeds: At normal application rates in minimum-tillage systems, Perennial weeds may not be at the proper stage of growth for control. See the "GENERAL INFORMATION" section of the glyphosate label for the proper stage of growth for Perennial weeds. Apply the atrazine and simazine at the rates given in "TABLE 3" plus 2 to 4 quarts of glyphosate per acre. This combination will provide top kill and reduce competition from many emerged Perennial grasses and Broadleaf weeds. See the "GENERAL INFORMATION" section of the glyphosate label for the proper stage of growth for Perennial weeds. Apply the atrazine and simazine at the rates given in "TABLE 3" plus 2 to 4 quarts of glyphosate per acre. This combination will provide top kill and reduce competition from many emerged Perennial grasses and Broadleaf weeds. Note: Do not use this tank mix on Sand or Loamy sand soils. Do not exceed 4 quarts of glyphosate per acre in this tank mixture. Not recommended to control Bermudagrass or Johnsongrass in minimumtillage systems.

## TABLE 3 This Product Plus Simazine 4L or 80W for Mixture with Glyphosate

	Broadcast Rate per Acre			
Soil Texture	This Product*	Simazine* 4L or 80W		
COARSE: Sandy loam only	1.1 lbs.	2 pts. or 1.25 lbs.		
MEDIUM: Loam, Silt loam, Silt, Sandy clay loam	1.1 to 1.6 lbs.	2 to 2.75 pts. or 1.25 to 1.75 lbs.		
FINE: Sitty clay, Loam, Clay loam, Sandy clay, Sitty clay, Clay	1.3 to 1.8 lbs.	2.35 to 3.15 pts. or 1.25 to 2 lbs.		

\*Use the higher rate of atrazine and simazine in the recommended ranges in soil with greater than 3% organic matter.

### FOR ALL SOIL APPLICATIONS PRIOR TO CROP EMERGENCE

On Highly Erodible Soils\*: If conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at-planting, apply 2.2 pounds per acre as a broadcast spray. If the soil coverage with plant residue is less than 30% at-planting, a maximum of 1.8 pounds per acre may be applied.

On Soils Not Highly Erodible\*: Apply 2.2 pounds per acre as a broadcast spray.

\*As defined by the Soil Conservation Service (SCS)

### USE PRECAUTIONS FOR ALL APPLICATIONS TO CORN

- To avoid crop injury and illegal residues, do not apply more than
   8 pounds per acre of this product to Corn in any one year.
- For best control of Cocklebur and Velvetleaf, the application rate cannot be less than 2 pounds per acre of active ingredient, either alone or in a tank mix combination.
- Following harvest of a treated crop, plow (moldboard or disk-plow) and thoroughly till the soil in the Fall or Spring to minimize possible injury to rotational Spring-seeded crops, regardless of the rate used.

Note: For All Applications To Corn—Do not graze treated areas or feed treated forage to livestock for 21 days following application or illegal residues may result.

For "POST-EMERGENCE APPLICATIONS PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE", see additional precautions under that section of this label.

### SORGHUM AND SORGHUM-SUDAN HYBRIDS

(Grain and Forage Types)

Apply before planting, at-planting or after planting. See "CORN" section for weeds controlled.

### PRE-PLANT SURFACE-APPLIED

Broadleaf and Grass Control: Use on Medium and Fine textured soil with minimum-tillage or no-tillage systems only in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, WI and WY. Apply recommended rate of this product shown in "TABLE 4" up to 45 days prior to planting. If an unsatisfactory length of weed control results from adverse environmental conditions following early treatment, a follow-up application of an appropriately labeled herbicide may be used. If the follow-up treatment includes atrazine, do not exceed the labeled rate for corn indicated in Table 1.

Under dry conditions, irrigation after application is recommended to move atrazine into the soil.

If weeds are present at time of treatment, apply in a tank mix combination with a contact herbicide (for example, paraquat or glyphosate). Observe directions for use, precautions and restrictions on the label of the contact herbicide.

Note: To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting or weed control will be diminished.

### PRE-PLANT INCORPORATED

Broadleaf and Grass Control: Broadcast in Spring after plowing at rate in "TABLE 4". Apply before, during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation. For best results, apply within 2 weeks prior to planting. Pre-Emergence or At-Planting (Broadleaf and Grass control): Apply during or shortly after planting, but prior to weed or crop emergence at rate shown in Table 4.

FOR POST-EMERGENCE APPLICATION (Broadleaf and Grass control): Apply before weeds exceed 1.5 inches in height and before Sorghum exceeds 12 inches in height. If no atrazine was applied prior to Sorghum emergence, apply 2.2 pounds per acre broadcast. If a post-emergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 pounds active ingredient (2.8 pounds of this product) per acre per calendar year. Where there are State/Local requirements regarding atrazine use (including lower maximum rates and/or set-backs) which are different from the label, the more restrictive/protective requirements must be followed. Certain states may have established rate limitations within specific geographical areas. Consult your State Lead Pesticide Control Agency for additional information. It is a violation of this label to deviate from State use regulations.

## TABLE 4 Pre-Plant Surface, Pre-Plant Incorporated and Pre-Emergence or At-Planting Applications\*

### For Broadleaf and Grass Weed Control in Sorghum

### On Highly Erodible Solis\*\*

If conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at the time of planting, apply 2.2 pounds per acre as a broadcast spray. If the soil coverage with plant residue is less than 30% at-planting, a maximum of 1.8 pounds per acre may be applied.

### On Soils Not Highly Erodible\*\*

Apply 2.2 pounds per acre as a broadcast spray.

\*Do not apply pre-plant, surface or pre-plant incorporated in AL, AR, FL, GA, LA, MS, NC, NM, OK, SC, TN or TX.

Do not apply pre-emergence in NM, OK or TX, except in Northeast OK and the

TX Gulf Coast and Blacklands areas. , \*\*As defined by the Soil Conservation Service (SCS)

In case of planting failures, Sorghum or Corn can be replanted. Do not make a second broadcast application or injury may occur. If this product is originally applied in a band and Sorghum or Corn is replanted in the untreated row middles, this product may be applied in a band to the second planting, provided the maximum application

## rate of 2.5 lbs. a.i./A of this product per calendar year is not exceeded. PRE-EMERGENCE BROADLEAF WEED CONTROL IN FURROWIRRIGATED BEDDED SORGHUM

(AZ and CA only): For pre-emergence control of many Broadleaf weeds broadcast 0.9 to 1.3 pounds per acre. Make application after bed preparation, during or after planting, but before Sorghum and weeds have emerged and before the first furrow irrigation. Several regular irrigations should follow the application, making sure that all soil is thoroughly wet.

### USE PRECAUTIONS FOR PRE-EMERGENCE APPLICATIONS OF THIS PRODUCT TO FURROW-IRRIGATED BEDDED SORGHUM

(AZ and CA): To avoid possible Sorghum injury, do not use on Sand or Loamy sand soils or on Sorghum planted in the furrow. Additionally, applications made to Sorghum growing on alkali soils or where cuts, fills or erosions have exposed calcareous or alkali subsoils, may result in crop injury. In case of crop failure, do not replant Sorghum for eight months following application. Corn may be planted immediately.

#### POST-EMERGENCE

Broadleaf and Grass Weed Control: Apply before weeds exceed 1 inch in height at the rate indicated in "TABLE 5". Application may be made to Sorghum reaching up to 12 inches in height.

## TABLE 5 Post-Emergence Broadleaf and Grass Control in Sorghum Minimum Height of Broadcast R:

Soll Texture	Minimum Height of Sorghum at Treatment	Broadcast Rate This Product	
Sand or Loamy sand	DO NOT U	SE	
Sandy loam	See directions for Broadleaf and Weed Control below.		
Silt loam to Sandy clay loams	Completely emerged 2.2 to 2.6 lbs		
Olton and Pullman Clay soils	At least 6 inches high	2.2 to 2.6 lbs.	
Silty clay loams and heavier soils	Completely emerged	2.8 lbs.	

If no atrazine was applied prior to Sorghum emergence, apply 2.2 pounds per acre broadcast. If a post-emergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 pounds active ingredient (2.8 pounds of this product) per acre per calender year.

POST-EMERGENCE BROADLEAF WEED CONTROL WITH THIS PROD-UCT PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER Broadcast 1.3 pounds per acre for control of many Broadleaf weeds. Application should be made before Lambsquarters and Pigweed reach 6 inches in height and before all other weeds reach 4 inches in height. In CO, Western KS, NM, OK, TX and desert regions of AZ and CA, apply when Sorghum is 6 to 12 inches in height, but before it reaches boot stage. In all other areas, apply after Sorghum reaches the threeleaf stage, but before it exceeds 12 inches in height. Add emulsifiable oil at the rate of 1 gallon per acre for ground applications and 0.5 gallon per acre for aerial applications or add 1 quart per acre of oil concentrate for ground application. A cultivation may be necessary if all weeds are not controlled or if regrowth of weeds occurs. For the list of weeds controlled, see "THIS PRODUCT AP-PLIED ALONE - CORN OR GRAIN SORGHUM - POST-EMERGENCE WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER."

USE PRECAUTIONS FOR APPLICATION OF THIS PRODUCT PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER TO SORGHUM— See "PRECAUTIONS FOR APPLICATIONS WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER" in the "CORN" section.

POST-EMERGENCE BROADLEAF WEED CONTROL WITH THIS PROD-UCT PLUS SURFACTANT (CO, Western KS, NM, OK, TX and Desert regions of AZ and CA only): Broadcast 1.3 pounds of this product plus 0.75 to 1.5 pints of surfactant per acre after Sorghum reaches 6 inches in height, but before weeds reach 1.5 inches in height. Apply only on Sandy loams and Finer textured soils.

### USE PRECAUTIONS FOR ALL APPLICATIONS TO SORGHUM

- Heavy rains immediately following application tend to cause 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 (plow-in). Deep planter marks or seed furrows should 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.
- Following harvest, plow (moldboard or disk-plow) and thoroughly till the soil in the Fall or Spring to minimize possible injury to Springseeded rotational crops, regardless of rate used.
- Injury may occur if both this herbicide, pre-plant surface, preplant incorporated or pre-emergence and an at-planting systemic insecticide applied in-furrow are used.
- Do not apply more than 2.5 pounds of active ingredient (2.8 pounds of this product) per acre per calendar year.
- 6. For all soil applications prior to crop emergence (except for preemergence use on bedded Sorghum in AZ and CA), do not apply to Coarse textured soils, i.e., Sand, Loamy sand, Sandy loam or to Medium and Fine-textured soils having less than 1% organic matter or injury may occur.
- For post-emergence applications, do not apply to Sand or Loamy sand or injury may occur.

For applications to furrow-irrigated bedded Sorghum in AZ and CA and for post-emergence applications plus emulsifiable oil, see additional precautions under these sections of this label.

Note: Do not graze or feed forage from treated areas for 21 days following application or illegal residues may result.

### TANK MIXTURES FOR GRAIN SORGHUM

THIS PRODUCT + METOLACHLOR on Grain Sorghum (Cyometrinil-Treated Seed): This product + metolachlor tank mixture provides control of weeds listed on the Metolachlor label and this label. Follow use instructions, precautions and limitations on the metolachor label.

### WINTER WEED CONTROL IN TEXAS

For post-emergence control of Winter weeds only, such as Annual thistle, Henbit and Seedling dock on Fall-bedded land in the Gulf Coast and Blacklands of TX, apply 0.9 to 1.1 pounds per acre post-emergence to the weeds in November or December to land that will be planted to Corn, Grain sorghum or Forage sorghum the following Spring. For best results add a suitable surfactant such as Surf-Ac 820 at the rate of 0.5% of the spray volume, an emulsifiable oil at the rate of 1% of the spray volume or an oil concentrate at the rate of 1 duart per acre.

Normal weed control programs may be used in the following: Corn, Grain sorghum or Forage sorghum crops.

Note: Do not plant any crops except Corn, Forage sorghum or Grain sorghum the Spring following this treatment or illegal residues may result.

### CHEMICAL FALLOW-THIS PRODUCT ALONE

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 3.3 pounds per acre to Wheat stubble immediately following Wheat harvest. If weeds are present, remove them with a sweep plow or other suitable implement after application or use an approved contact herbicide before or after application of this product. 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.

For the list of weeds controlled, see "THIS PRODUCT APPLIED ALONE - CORN OR GRAIN SORGHUM - Pre-plant Surface-Applied, Pre-plant Incorporated, or Pre-emergence".

### Use Precautions:

- Use only on Silt loam or Fine-textured soil, or crop injury may result.
- 2. Wheat-Sorghum-Fallow cropping sequence must be followed.
- 3. Do not apply following Sorghum harvest.

Note: To avoid illegal residues, do not graze or feed forage from treated area to livestock. To avoid illegal residues and crop injury, do not plant any crop other than those on this label within 18 months following treatment.

WHEAT-CORN-FALLOW (CO, KS, ND, NE, SD, and WY): This product controls Cheatgrass (Downy brome, Chess), Kochia, Mustard, 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. On soils in ND and

SD with a pH greater then 7.5, do not exceed 1.5 lbs. a.i./A of this product. For soils with a pH less than 7.5 in ND and SD, apply 1-2 lbs. a.i./A. Use the higher rate on fine-textured soils and where heavy weed infestations are expected; use the lower rate on coarse-textured soils and where light weed infestations are expected. In the event grasses are present the following Spring, use a Grass herbicide registered for use on Corn.

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, ND, NE, SD and WY): For pre-emergence and 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, broadcast 0.5 to 1.1 pounds per acre 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.

### TANK MIXTURES FOR CHEMICAL FALLOW

WHEAT-SORGHUM-FALLOW OR WHEAT-CORN-FALLOW (KS, NE) THIS PRODUCT PLUS PARAQUAT: If weeds are present at application, a tank mix with paraquat may be used. Broadcast 3.3 pounds of this product plus a suitable amount of paraquat in 20 to 60 gallons of water per acre by ground equipment. Add 0.5 to 1 pint of a non-ionic surfactant, such as Surf-Ac 820, per 100 gallons of spray mixture. Add this product to spray tank first and thoroughly mix with water. Then add paraquat followed by surfactant. Use the higher rate of paraquat if weeds are 4 to 6 inches tall. This mixture will not control weeds taller than 6 inches. Apply to stubble ground. Treat only once during same fallow period. Refer to paraquat label for further directions, precautions and limitations.

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

THIS PRODUCT PLUS PARAQUAT: If weeds are present at application, a tank mix with paraquat may be used. Broadcast 0.5 to 1.1 lbs. of this product plus a suitable amount of paraquat in 20 to 60 gals. of water per acre by ground equipment. Add 0.5 to 1 pt. of a non-ionic surfactant, such as SurfaC 820 per 100 gals. of spray mixture. Add this product to spray tank first and thoroughly mix with water. Then add paraquat followed by surfactant. Use the higher rate of paraquat specified on the label if weeds are 4 to 6 inches tall. This mixture will not control weeds taller than 6 inches. Apply to stubble ground. Treat only once during same fallow period. Refer to the paraquat label for further directions, precautions and limitations.

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, plant at least 2 inches deep and 12 months or more after application.

### Use Precautions to Avoid Crop Injury:

- 1. Do not use on Sandy soil.
- Do not treat eroded hillsides, caliche and rocky outcroppings or exposed calcareous subsoil.
- 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 or illegal residues may result.

AERIAL APPLICATION: In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 feet using low drift nozzles at a maximum pressure of 40 psi and restrict application to periods when wind speed does not exceed 10 mph.

To assure that spray will not adversely affect adjacent sensitive non-target plants, apply this product alone by aircraft at a minimum upwind distance of 400 feet from sensitive plants.

### ROADSIDES

To control certain annual Weeds in established perennial Grasses along roadsides in CO, KS, MT, ND, NE, SD and WY, including Cheatgrass (Downy brome, Chess), Common (Annual) broomweed, Little barley, Medusahead, Sagewort and Tumble mustard, broadcast 1.1 pounds per acre in a minimum of 10 gallons of water by ground equipment in the Fall before ground freezes or after thawing in the Spring, but before the established Grasses green-up and before weeds emerge. Examples of desirable established Grasses include Big bluestem, Bluegrama, Bromegrass, Buffalograss, Crested wheatgrass, Indiangrass, Little bluestem, Side-oats grama, Switchgrass and Western wheatgrass. Apply only once per year. Temporary discoloration or other form of injury to the desirable perennial Grasses may occur following application.

Note: To avoid illegal residues:

- 1. Do not cut or feed roadside Grass hay.
- 2. Do not allow livestock to graze treated areas.

### SUGARCANE

For control of many Broadleaf and Grass weeds, such as Amaranths, Crabgrass, Fireweed, Flora's paintbrush, Foxtail, Junglerice and Wiregrass, broadcast 2.2 to 4.4 pounds per acre at time of planting or rationing, but before the Sugarcane emerges.

Broadcast aerially in a minimum of 5 gallons of spray per acre, or broadcast or band by ground equipment in a minimum of 20 gallons per acre, unless indicated otherwise. One additional application may be made over the cane as it emerges and two additional applications may be made interline after emergence, as a directed spray. Repeat-treatments, where needed, may be applied broadcast, band or interline as suggested with the final application being prior to "close-in." Do not exceed the rate of herbicide suggested for any one crop of Sugarcane.

Note: Where high rates of this product are used, apply in a minimum of 1 gallon of water for each pound of this product applied per acre. AERIAL APPLICATION: In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 feet using low drift nozzles at a maximum pressure of 40 psi and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive non-target plants, apply this product alone by aircraft at a minimum upwind distance of 400 feet from sensitive plants.

### Use Precautions For All States and Uses:

- 1. Do not apply this product after "close-in"
- Do not apply more than 11 pounds of this product to any one crop of cane or crop injury may result.
- Injury to Sugarcane may occur when under moisture stress, when soil is of low absorptive capacity or when land is first cropped to Sugarcane.

For specific weed problems, the following may be used. Other rate and application timings may be used for other weed spectrums and cultural practices, provided they are within the above "GENERAL USE DIRECTIONS FOR ALL STATES" and are consistent with the "USE PRECAUTIONS FOR ALL STATES AND USES".

#### **FLORIDA**

For control of emerged Pellitory weeds (Artillery weed), apply 0.4 to 0.6 pound per acre in 40 gallons of water per acre as a directed spray by ground equipment prior to "close-in". Add 2 quarts of surfactant for each 50 gallons of spray and be sure Weed foliage is thoroughly covered.

For control of Alexandergrass, Large crabgrass, Pellitory weed (Artillery weed) and Spiny amaranth, use one of the following methods at-planting or ratooning:

- Apply 4.4 pounds per acre pre-emergence. Follow with one or two applications, as needed, post-emergence to Sugarcane and weeds at 2.2 pounds per acre. Treat before weeds exceed 1.5 inches in height.
- Apply 1 to 3 times, as needed, at 2.2 pounds per acre postemergence to Sugarcane and weeds. Treat before weeds exceed 1.5 inches in height.

### LOUISIANA

For control of annual Weeds during the Summer fallow period, apply 2.2 pounds per acre to weed-free beds immediately after bed formation. Follow normal weed control after planting.

### Additional Use Precautions To Avoid Crop Injury in LA:

- Do not apply more than 11 pounds per acre to any one crop of Sugarcane.
- If making 2.2 pounds per acre application during Summer fallow period, do not exceed 8.8 pounds per acre during remainder of the growing season or illegal residues may result.

### **TEXAS**

Use this product for control of Barnyardgrass, Pigweed, Purslane and Sunflower in plant or ration Suparcane.

Apply 4.4 pounds per acre of this product pre-emergence. Follow with one or two applications, as needed, at 3.3 pounds per acre post-emergence to Sugarcane and weeds.

For best results, when weeds are emerged, add a non-ionic surfactant, such as Surf-Ac 820, at a concentration of 2 quarts per 100 gallons to the spray and apply before weeds exceed 1.5 inches in bailth?

### CONIFERS

For control of annual Broadleaf and Grass weeds prior to transplanting, after transplanting or in established Conifers (including Austrian pine, Bishop pine, Blue spruce, Douglas fir, Grand fir, Jeffrey pine, Knobcone pine, Loblolly pine, Lodgepole pine (Shore pine), Monterey pine, Noble fir, Ponderosa pine, Scotch pine, Slash pine, Sitka spruce and White fir). Broadcast 2.2 to 4.4 pounds in a minimum of 5 gals, of water per acre by air or 10 gals, by ground before weeds are 1.5 inches tall. Apply to established trees between Fall and early Spring while trees are dormant. For new transplants, apply during or soon after transplanting. For applications prior to transplanting, allow sufficient precipitation to activate atrazine before transplanting. In areas where Spring and Summer rainfall is inadequate to activate atrazine, apply during Fall prior to Spring transplanting.

For the list of weeds controlled, see "THIS PRODUCT - APPLIED ALONE - CORN OR GRAIN SORGHUM - Pre-plant Surface Applied, Pre-plant Incorporated or Pre-emergence".

QUACKGRASS CONTROL: Broadcast 4.4 pounds in a minimum of 5 gallons of water per acre by air or 10 gallons by ground between Fall and early Spring while trees are dormant and before Quackgrass is more than 1.5 inches tall.

### Use Precautions:

- 1) In areas West of the Rocky Mountains (except the Great Basin), grazing may begin 7 months after a Fall application or 3 months after a Winter or Spring application.
- To prevent illegal residues, do not graze treated areas of the Great Basin, or areas East of the Rocky Mountains.

Temporary injury to trees may occur following the use of atrazine on Coarse textured soil. To avoid injury:

- 1. Do not apply to seedbeds.
- 2. Apply only once per year.

Notes: 1) In areas West of the Rocky Mountains (except the Great Basin), grazing may begin 7 months after a Fall application or 3 months after a Winter or Spring application. 2) To prevent illegal residues, do not graze treated areas of the Great Basin, or areas East of the Rocky Mountains.

AERIAL APPLICATION: In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 feet above vegetation, using low drift nozzles at a maximum pressure of 40 psi and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive non-target plants, apply this product by aircraft at a minimum upwind distance of 400 feet from sensitive plants.

### ST. AUGUSTINE GRASS, CENTIPEDEGRASS AND DOR-MANT BERMUDAGRASS

This product controls Annual bluegrass, Florida betony, Spurweed and many other problem weeds in home lawn, ornamental and recreational turf and other non-crop areas such as highway right-of-ways and similar areas. This product may be applied with any pump-up or compressed air type sprayer or with a hose-on type sprayer. This product will control both emerged weeds and weeds from seeds. Rain or watering within 2 to 3 days of application may decrease the effectiveness on emerged weeds. However, for control of weeds from seeds, rainfall or watering is necessary within 7 to 10 days after treatment.

Note: Do not apply within the active root zone of Vegetables or desirable Ornamental plants such as Azaleas, Boxwoods, Camellias, etc. However, treatments with this product should not normally cause injury to medium or large shrubs or trees in the landscape. Do not plant any crop (Flower or Vegetable gardens) to treated areas for 18 months or injury may result.

### WEEDS CONTROLLED OR SUPPRESSED

Annual bluegrass (*Poa annua*), Chickweed (Common and Mouseear), Crabgrass, Cransbill, Cudweed, Dichondra, Florida betony, Henbit, Knotweed, Lespedeza, Moneywort, Mustard, Narrowleaf vetch, Parsleypiert, Sandspur, Smutgrass, Spurge, Spurweed, Swinecrest, Woodsorrel and various annual Clovers.

### CONTROL OF ANNUAL WEEDS IN BERMUDAGRASS ON COUNTY ROAD RIGHT-OF-WAYS

Apply 2.2 to 4.4 pounds of this product in 40 to 80 gallons of water per acre to control Annual bluegrass, Black nightshade, Cheat, Cocklebur, Common hop clover, Broomweed (Annual), Crabgrass, Downy brome, Japanese brome, Foxtails, Horseweed, Kochia, Lambsquarters, Little barley, Marestail, Mustard, Pigweed (Carelessweed), Poorjoe, Ragweed, Russian thistle, Smartweed, Smutgrass, Sunflower, Wild lettuce and Wild oats. Use the lower rates on Coarse textured soils having lower organic matter percentages and the higher rates on Fine textured soils having higher organic matter percentages. For control of Summer annual weeds, apply this product in the Spring before weeds emerge. To control Winter annual weeds, apply this product in the Fall before weeds emerge or in the early Spring before active growth resumes.

Note: Do not cut for hay or graze treated areas within 3 months following an application. Apply only once per year. Do not seed or transplant species which are sensitive to this product within 18 months after application. Do not use on right-of-ways where preservation of Wildflowers is desired. This product may cause injury to Wildflow-

### TIMING OF APPLICATION

The timing of applications to achieve maximum control may vary quite a bit with different weed species. The following application times are suggested for certain problem weeds.

Spurweed: The best control of Spurweed can be obtained by applying this product when Spurweed has emerged (December and January).

Florida betony: This weed emerges in the Fall so an application of this product in mid to late October followed with a second application in mid to late February would give best control.

Dichondra, Moneywort: The best control of these weeds can be obtained by applying this product in early April followed with a second application in July. Do not apply to growing Bermudagrass. Applications for Florida betony or Spurweed generally will give control or suppression of the other weeds listed. However, as a general

trol or suppression of the other weeds listed. However, as a general rule, this product will give the best control when applied to young, tender weeds or just prior to weed emergence.

### ST. AUGUSTINE AND CENTIPEDEGRASSES

This product may be applied to established Centipedegrasses and St. Augustine grasses during both the dormant and the growing season. Best results are usually obtained in the early Spring or dormant periods when weeds are small or have not emerged. Follow rates listed.

#### DORMANT BERMUDAGRASS

This product may be applied to Bermudagrass during the dormant season only. Applications to Bermudagrass during the growing season will cause injury. Follow rates below.

### RATE OF APPLICATION

Determine the total area to be sprayed and base rate of application on the chart below. Avoid overlapping spray pattern while treating.

Area to be Treated	Amount of THIS PRODUCT	
500 sq. ft.	1.33 tbsps.	
1,000 sq. ft.	2.75 tbsps. (1.33 ozs.)	
3,000 sq. ft.	5 tbsps.	
5,450 sq. ft.	0.27 lb.	
10,900 sq. ft. (0.25 acre)	0.55 lb.	
1 acre	2.2 lbs.	

### TURFGRASS FOR FAIRWAYS, LAWNS, SOD PRODUCTION\* AND SIMILAR AREAS (\*Except FL)

\*In states other than FL. For use on Turfgrass for sod in FL. see "TURFGRASSES FOR SOD (FL ONLY)" section below.

Bermudagrass, Centipedegrass, St. Augustine grass and Zoyslagrass: Apply this product after October 1 before emergence of Winter annual weeds for control of Annual bluegrass, Burclover, Carpet burweed, Chickweed, Corn speedwell, Henbit, Hop clover and Spurweed. This product will control Annual bluegrass even if it is emerged at time of treatment. For control of Summer annual weeds listed in the pre-emergence portion of the "THIS PRODUCT APPLIED ALONE-CORN OR GRAIN SORGHUM-Pre-plant Surface-Applied, or Pre-plant Incorporated, or Pre-emergence" section of this label, also apply this product in late Winter before the weeds emerge. Apply in a minimum of 15 gallons of water per acre or 1 gallon per 1,000 square feet (0.4 fl. oz. per 1,000 sq. ft.).

Where Annual bluegrass is the major weed, use 1.1 pounds per acre. Use 2.2 pounds per acre for control of the other weeds named above. Do not exceed 1.1 pounds per acre per treatment on newly sprigged Turfgrass or on hybrid Bermudagrass such as Tiflawn, Tifway and Ormond.

For continued Summer annual weed control, apply another 1.1 pounds per acre at least 30 days after the previous application, but not after April 15. However, do not make more than 2 applications of this product per year.

Use Precautions: On newly sprigged Turfgrass and hybrid Bermudagrass, temporary slowing of growth and yellowing may occur following application.

To avoid turf injury: 1) Use only on Turfgrass reasonably free of infestations of insects, nematodes and diseases. 2) Do not use on golf greens. 3) Do not use North of NC (except may be used in VA Coastal Plains) or West of the high rainfall areas of Eastern OK and Eastern TX. 4) Do not use on Muck or Alkaline soils. 5) Do not apply over the rooting area of Trees or Ornamentals not listed on this label. 6) Do not overseed with desirable Turfgrass within 4 months before or 6 months after treatment. 7) Do not apply this product to newly seeded Bermudagrass until it has over-Wintered and has a well-developed rhizome system. Do not exceed 2.2 lbs. of product per acre within 12 months of seeding Bermudagrass.

Note: Do not graze or feed turf clippings to animals or illegal residues may result.

### TURFGRASSES FOR SOD (FL ONLY)

St. Augustine grass, Centipedegrass and Zoysiagrass: Broadcast 2.2 to 4.4 pounds per acre according to soil texture to control those weeds listed under "THIS PRODUCT APPLIED ALONE—CORN OR GRAIN SORGHUM—Pre-plant Surface-Applied, or Pre-plant Incorporated, or Pre-emergence".

Muck or Peat	4.4 lbs.	OLD BEDS: Within 2 days after lifting sod. NEW BEDS: 3 to 4 days after springing or plugging
Sandy soil	2.2 lbs.	OLD BEDS: Within 2 days after lifting sod. NEW BEDS: 7 to 10 days after sprigging or plugging

If weeds regrow, apply an additional 2.2 pounds per acre on Muck or Peat or 1.1 pounds per acre on Sandy soil.

### Use Precautions To Avoid Crop Injury:

- 1. Do not apply within 30 days prior to cutting or lifting.
- Do not apply in combination with surfactants or other spray additives.
- Use only on Turfgrass reasonably free of infestations of insects, nematodes and diseases.
- On newly sprigged Turfgrass, temporary slowing of growth may follow application.

#### **MACADAMIA NUTS**

For pre-emergence control of many Broadleaf and Grass weeds, including Crabgrass, Fireweed, Flora's paintbrush, Foxtails, Spanishneedles and Wiregrass, broadcast 2.2 to 4.4 pounds per acre before harvest and before weeds emerge. Repeat as necessary. Do not spray when Nuts are on ground during harvest period. Do not apply by air.

#### GUAVA

Use only on established plantings which are at least 18 months old. Apply as a directed spray at 2.2 to 4.4 pounds per acre of this product in 20 to 50 gallons of spray mix pre-emergence or early postemergence to weeds. When applying post-emergence, the use of a surfactant and greater spray volume (80 to 100 gallons of spray mix per acre) may enhance weed control.

This product controls many annual Broadleaf and Grass weeds, including Fireweed, Purslane, Scarlet pimpernel, Sowthistle and Spanishneedles.

### Notes To Avoid !!legal Residues:

- 1. Do not allow spray to contact foliage or fruit.
- 2. Do not apply more frequently than at 4-month intervals.
- 3. Do not apply more than 8.8 pounds of this product per year.

### CONSERVATION RESERVE PROGRAM (CRP) (NE. OK. OR AND TX)

For control or suppression of the following weeds: Annual ragweed, Barnyardgrass, Black nightshade, Cheat, Cocklebur, Downy brome, Fall panicum, Field pennycress, Giant foxtail, Yellow foxtail, Japanese brome, Kentucky bluegrass, Kochia, Lambsquarters, Little barley, Marestail, Pigweed, Prickly lettuce, Smooth brome, and Sunflower, refer to the directions, notes and precautions below:

### Pure stands of newly seeded Big bluestem, Switchgrass and Eastern gamagrass

Use only on Loam, Silt loam, Silty clay loam, Clay loam and Silty clay soils with at least 1% organic matter.

Establishment: Broadcast 2.2 lbs./A of this product pre-plant incorporated or pre-emergence at time of seeding and prior to emergence of weeds. Prepare a good firm seedbed. Plant 0.5 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.

### Renovation of existing stands of Big bluestem and Switchgrass planted on CRP acres

Broadcast 1.1 to 2.2 ibs./A to existing stands of Big bluestem and Switchgrass prior to the emergence of weeds. Use the low rate of soils containing from 1 to 2% organic matter. Use the high rate on soils with 2% or more organic matter.

### Renovation of existing stands of the following perennial range grasses planted on CRP acres

Blue grama, Indiangrass, Little bluestem, Sand lovegrass, Sideoats grama, and Western wheatgrass.

Broadcast 0.6 to 1.1 lbs./A in the Spring prior to weed emergence, or in the Fall before the ground freezes and prior to weed emergence after these species have been established for at least one growing season for control or partial control of the weeds listed above. Use the low rate for weeds controlled or suppressed easily. Use the higher rate on other weeds claimed in an early section of this label.

Aerial Application: Make applications at a maximum height of 10 ft. above vegetation. Use low-drift nozzles at a maximum pressure of 40 psi. Restrict application to periods when wind speed does not exceed 10 mph to control drift. To assure that drift will not adversely affect adjacent sensitive nontarget plants, apply this product by aircraft at a minimum upwind distance of 400 ft. from sensitive plants, Use 3-5 gals./A total water volume; use the higher water volume when a dense, heavy ground cover is present.

Notes: (1) Do not cut or feed grass hay to livestock. (2) Do not graze treated areas. (3) Do not use seeds for bird food. (4) Do not dump or spill product or dispose of containers within reach of livestock. (5) Follow all applicable restrictions for the Conservation Reserve Program.

Use Precautions: To avoid crop injury, make only one application per year. Slight discoloration of desirable grasses may occur following treatment. Injury may be enhanced when used on neutral or alkaline soils.

#### SEVERE DROUGHT CONDITIONS

Do not graze forage or cut forage for hay. Under severe drought conditions, the Conservation Reserve Program allows grazing and making of hay from CRP acres, as so specified by the local ASCS (Agricultural Stabilization & Conservation Service) office. This label does not allow grazing or making of hay from CRP acres that have been treated with atrazine under any circumstance.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. PESTICIDE STORAGE: Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool, dry area away from any heat or ignition source. Do not stack over 2 pallets high. Move bags carefully so as not to tear or puncture. Do not move containers from one area to another unless they are securely sealed. Keep container tightly sealed when not in use. Do not allow bags to become wet or store in a damp, humid area. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Store in original container only. If the contents are leaking or material is spilled, follow these steps:

- 1. Collect and place in suitable containers for disposal.
- 2. Wash area with soap and water to remove remaining pesticide.
- 3. Follow washing with clean water rinse.
- 4. Do not allow runoff to enter sewer or contaminate water supplies.
- 5. Dispose of waste as indicated below.

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 into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

### WARRANTY-CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

In no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.