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# RESTRICTED USE PESTICIDE (GROUND 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 HERBIGINE DUE TO GROUND WATER CONCERNS. USERS MUST READ AND FOLLOW ALL PRECAUTIONARY STATEMENTS AND INSTRUCTIONS FOR USE IN ORDER TO MINIMIZE POTENTIAL FOR ATRAZINE TO REACH GROUND WATER.

# SUTAN®+ / ATRAZINE 4.4-F Selective Herbicide-Flowable For Corn (Field, Sweet, Silage and Popcorn)

# ACTIVE INGREDIENTS:

S-Ethyl diisobutylthiocarbamate									
s-triazine Related Triazines	•	•			•	•	•	•	. 0.65%
									100.00%
Contains 2 2 lbs C February discount this work made and									

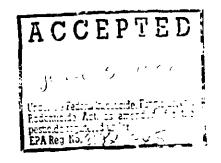
Contains 3.3 lbs. S-Ethyl dissobutylthiocarbamate and 1.1 lbs. atrazine active ingrelient per gallon.

# KEEP OUT OF REACH OF CHILDREN.

# DANGER

COPROSIVE, CAUSES IRREVERSIBLE EYE DAMAGE HAFMFUL IF SWALLOWED.

# STATEMENT OF PRACTICAL TREATMENT



#### FIRST AID:

If Swallowed: <u>DO NOT</u> induce vomiting. Immediately give large quantities of water. If vomiting does occur, give fluids again. Never give anything by mouth to an unconscious person. Call a physician or the nearest poison control center immediately.

If In Eyes: Hold eyelids apart and flush with large amounts of running vater for at least 15 minutes. Call a physician.

If On Skin: Flush with large amounts of running water for 15 minutes. Remove contaminated clothing and shoes. Get medical attention if skin irritation occurs. Wash clothing before r e u s e.

If Inhaled: Remove to fresh air. Get medical attention if respiratory irritation occurs.

#### READ ALL LABEL DIRECTIONS BEFORE USING

EPA Reg. No. 10182-245

5 Gal . Net 18. 9 L

EPA Est.

Made in U.S.A. by ICI Agricultural Products A business unit of ICI Americas Inc. Wilmington, Delaware 19897



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#### PRECAUTIONARY STATEME..TS

# HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### DANGER

CORROSIVE, CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF SWALLOWED. Do 10. + 90+ 10.00 eyes, on skin or on clothing. Wear goggles, or face shield, rubber gloves and protective clothing. Wash skin with soap and water immediately after contact. Flush eyes with water.

Users are required to Year long sleeve shirts and long pants or equivalent, shemical resistant gloves; and boots (waterproofed). In addition, persons involved in mixing or loading operations are required to use chemical resistant subber or neoprate gloves and a face shield or goggles.

## ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminatewater when disposing of equipment washwaters.

Ground water contamination may be reduced by diking and flooring of parmament liquid bulk storage sites with an impermeable material

Can be stored at temperatures as low as minus 30 degrees F.



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# WEEDS CONTROLLED BY SUTAN+/ATRAZINE 4.4-F

## Annual Grasses:

Barnyardgrass, Watergrass Broadleaf Signalgrasst\*+ Crabgrass Fall Panicum Field Sandbur\* Giant Foxtail Green Foxtail Goosegrass Seedling Bermudagrass Seedling Johnsongrass\* Texas Panicum\*++, Buffalograss, Coloradograss Volunteer Sorghum\* Wild Canet\*, Shartercane, Black Amber Cane, Chicken corn, Scatter Cane See Wild Cane Rate and Culture Recommendations Wild Oats Witchgrass Yellow Foxtail

(Echinochloa crus-galli)
(Brachiaria platyphlla)
(Digitaria pp.)
(Panicum dichotomiflorum)
(Cenchrus pauciflorus)
(Setaria faberi)
(Setaria viridis)
(Eleusine indica)
(Cynodon dactylon)
(Sorghum halopese)
(Paricum texanum)
(Sorghum spp.)
(Sorghum bicolor)

(Avena fatua) (Panicum capillare)) (Setaria glauca)

+Partial control (suppression) only.

\*Cultivation is suggested in addition to the SUTAN+/ATRAZINF 4.4-F treatment in fields with moderate to heavy infestations of wild cane, sandbur, johnsongrass, Texas panicum, volunteer sorghum, or broadleaf signalgrass.

++Southeast Region only

# Annual Broadleaf Weeds:

Annual Morningglory Carpetweed Common Cocklebur Common Lambsquarters Common Purslane Florida Purslane Jimsonweed. Mustards Nightshade Prostrate Pigweed Ragweed Redroot Pigweed Sicklepod+, Coffeeweed Smartweed Smooth Pigweed Velvetleaf

(Mollugo verticillata)
(Xanthium pensylvanicum)
(Chenopodium album)
(Portulaca oleracea)
(Richardia scabra)
(Datura stramonium)
(Brassica spp.)
(Solanum spp.)
(Amaranthus graecizans)
(Ambrosia spp.)
(Amaranthus retroflexus)
(Cassia obtusifolia)
(Polygonum spp.)
(Amaranthus hybridus)
(Abutilon theophrasti)

(Inomes purpures)

+Southeast Region only.





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# Perennial Weeds:

Pemp Dogbane+
Purple Nutsedge
Rhizome Bermudagrass++
Rhizome Johnsongrass++
Yellow Nutsedge

(Apocynum cannabinum)
(Cyperus rotundus)
(Cynodon dactylon
(Sorghum halopense)
(Cyperus esculentus)

+Partial control (suppression) only. ++Southeast Region only.

Existing stands of nutsedge must be turned under and chopped up thoroughly before treatment. Cultivation is suggested in addition to SUTAN+/ATRAZINE 4.4-F treatment in fields with moderate to heavy nutsedge infestations.

# GENERAL USE PRECAUTIONS

Read all label directions before using.

Applied according to directions and under normal growing conditions, SUTAN+/ATRAZINE 4.4-F will not harm the treated crop. During germination and early stages of growth, extended periods of unusually cold and wet or het and dry weather, insect or plant di sease attack, carryover pesticide residues, the use of certain soil-applied systemic insecticides, improperly placed fertilizers or soil insecticides may create abnormal conditions that weaken crop seedlings. SUTAN+/ATRAZINE 4.4-F used under these abnormal conditions could result in crop injury.

Make only one application per crop after treatment with SUTAN+/ Atrazine 4.4-F. Do not plant any crop except corn until the following year or injury may occur.

Do not use on milo or sorghum. Do not use on corn seed stock (Breeders, Foundation, or Increase).

SUTAN+/ATRAZINE 4.4-F is recommended for use on mineral soils only (soils containing less than 10% organic matter).

Do not contaminate irrigation water (used for crops other than corn) or water used for domestic purposes.

Do not contaminate food or feed.

Keep container closed when not in use. Do not store near seeds, fertilizers, or foodstuffs.

Do not use in Arizona or in the ten Southernmost. California counties (except Kern County where field and silage corn may be treated).

In irrigated areas, do not apply SUTAN+/ATRAZINE 4.4-F before preirrigation.

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DIRECTIONS FOR USE OF SUTAN+/ATRAZINE 4.4-F

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

This product may not be mixed or loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sink holes.

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

SUTAN+/ATRAZINE 4.4-F is a selective herbicide which is mixed (incorporated) into the soil for control of weeds listed on this label. SUTAN+/ATRAZINE 4.4-F controls annual grasses as their seeds germinate by interfering with normal germination and seedling development. it does not control established weeds.

Postemergence application to corn must be made before corn reaches 12 inches in height.

The maximum application rate for corn is 3 lbs. strazine active ingredient per scre per calendar year.

#### DIRECTIONS FOR USE

SUTAN+/ATRAZINE 4.4-F can be mixed with water or combined with fluid (solution, slurry, or suspension) fertilizers and applied as a spray.

SUTAN+/ATRAZINE 4.4-F FLUID FERTILIZER TANK MIX.

SUTAN+/ATRAZINE 4.4-F can be combined with fluid fertilizers for applications made before planting. However, the physical compatibility with these fluid fertilizers must be determined before combining in the spray tank, and even though tound to be compatible, constant agitation is necessary to keep the SUTAN+/ATRAZINE 4.4-F evenly mixed with the fluid fertilizer during application.

Refer to Appendix II regarding the procedure for testing the compatibility of SUTAN+/ATRAZINE 4.4-F with fluid fertilizers.

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#### APPLICATION AND SOIL INCORPORATION DIRECTIONS

#### SPRAY APPLICATION AND MECHANICAL INCORPORATION

Apply the recommended dosage in 10 to 50 gallons of water per acre (use the higher gallonage in arid areas) using a properly calibrated, low-pressure type nozzle (flood, fan or swirl chamber) on boommtype sprayer having good, but not excessive agitation. Check frequently during application to be sure nozzles are free from clogging and are delivering a uniform spray pattern.

The herbicides must be incorporated into the soil immediately after application to prevent loss of the SUTAN+/ATRAZINE 4.4-F. Whenever possible, application and incorporation should be done in the same operation. Apply the herbicides to soil dry enough to permit good soil mixing.

See Appendix I for Soil Mixing (incorporation) before Planting Directions.

Loss of weed control will result from any delay in incorporation if SUTAN+/ATRAZINE 4.4-F is applied to a moist soil surface.

If there must be a delay (less than one hour) in incorporation of the herbicides when application and incorporation are done in separate operations, SUTAN+/ATRAZINE 4.4-F must be applied to a dry soil surface (at least 1/2 inch deep) and free from dew and incidental moisture.

IMPORTANT: Thorough mixing of SUTAN+/ATRAZINE 4.4-F in the soil is necessary Ihe soil must be in good tilth. Improper discing or poor tilth (large clods) may result in unsatisfactory control.

#### PLANTING

Do not plant seed deeper than 2 inches. For a SUTAN+/ATRAZINE 4.4-F spplication made before planting, seeding can be done immediately, or it may be delayed up to 2 weeks\*. To avoid removing SUTAN+/ATRAZINE 4.4-F from the row (with loss of weed control in the row), do not move or shape soil after treatment, such as by planting in deep furrows. If it is \_\_ecessary to work the soil following application and incorporation but before planting, do not work the soil deeper than the depth the herbicides were incorporated.

\*For Wild Cane - See Special Recommendations.



# RECOMMENDATIONS

NOTE: SUTAN+/ATRAZINE 4.4-F is not recommended on corn grown in Arizona or an the ten Southermost California counties.

For all uses, cultivation is recommended in addition to the SUTAN+/ ATRAZINE 4.4-F treatment in fields with moderate to heavy infestations of wild cane, nutsedge, sandbur, johnsongrass seedlings, rhizome bermudagrass, Texas pandicum or volunteer sorghum.



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Broadcast Rates Per Acre: Conventional sprays

For Control of Annual Grasses and Broadleaf Weeds: Use 7-1/4 to 9-3/4 pints SUTAN+/ATRAZIN 4.4F per acre. Use the higher rate of SUTAN+/ATRAZINE 4.4-F on medium (medium fine textured-silt loam, clay loam, etc.) to fine (fine textured-clay) soils and for sandbur and johnsongrass seedling control.

For Control of Nutsedge and Texas Panicum (in addition to the broadleaf weeds and other annual grasses listed): Use 9-3/4 to 14-1/2 pints of SUTAN+/ATRAZINE 4.4-F per acre. Use the higher rates of SUTAN+/ATRAZINE 4.4-F on medium (medium fine textured-silt loam, clay loam, etc.) soils, fine (fine textured-clay) soils and fo-r heavy infestations.

For Partial Control (Suppression) of Wild Cane (and for control of the broadleaf weeds and annual grasses listed): When applied and incorporated immediately before planting, SUTAN+/ATRAZINE 4.4-F at the rate of 14-1/2 pints per acre on a broadcast basis will reduce competition from wild cane. On continuous corn acreage with high cane seed population, rotation to another crop is recommended.

Suppression of wild cane may be improved if all the following practices are followed:

- 1. Fall or Spring Moldboard Plow.
- 2. Before application, the soil should be well worked with a disc and dry enough to permit good soil mixing of the herbicide (incorporation). All trash should be worked into the soil.
- 3.Delay application until soil warms to a constant 55 degree F or greater temperature. Plant immediately.
- 4. Incorporate thoroughly. Use recommended incorporation equipment and procedures found on this label.
- 5. Cultivate immediately if wild cane emerges. Cultivation should be shallower than the depth used when incorporating the helbicide.

For Control of Johnsongrass and Bermudagrass (in addition to the broadleaf weeds and annual grasses listed): Apply and discincorporate SUTAN+/ATRAZINE 4.4-F just before planting at the rate of 9-3/4 to 14-1/2 pints per acre. Use the higher rate of SUTAN+/ ATRAZINE 4.4-F on medium (medium fine textured-silt loam, clay loam, etc.) soils, fine (fine textured-clay) soils, for rhizome johnsongrass suppression and for heavy infestations. Disc a second time at right angles to the first. Cultivate at least once, preferably twice.

Johnsongrass: Using a program of plowing and discing followed by SUTAN+/ATRAZINE 4.4-F will give good control of seedlings and greatly reduce competition from plants coming from rhizomes.

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In some areas discing 2 to 3 times spaced at 4 to 6 week intervals during fall and winter can be done. If this cannot be done, start with fall plowing followed by several discings in the spring before planting. The discing cuts rhizomes into small pieces and brings them to the surface, where both the weather and SUTAN+/ATRAZINE 4.4-F will kill or weaken them.

Rhizome Bermudagrass: The rhizomes and stolons of bermudagrass must be cut up thoroughly so that four or less nodes remain on a strand. For control of bermudagrass, the disc must be set to cut 6 inches deep.

For Suppression of Broadleaf Signalgrass: For early and mid-season suppression, use 14-1/2 pints of SUTAN+/ATRAZINE 4.4-F per acre. Cultivation or application of a postemergence herbicide recommended for broadleaf signalgrass will aid in extending control to late season.

For Suppression of Hemp Dogbane: For early and mid-season suppression, use 14-1/2 pints of SUTAN+/ATRAZINE 4.4-F per acre. Cultivation or application of a post-emergence herbicide recommended for hemp dogbane may aid in extending control beyond mid-season.

<u>Fall Application:</u> For use only in Minnesota, Northern Iowa (North of Intertate 80), Northeast Nebraska (North of Interstate 80 and East of State Highway 14), South Dakota (East of Missouri River), Wisconsin and Northern Illinois (North of Interstate 80). Apply and incorporate 14-1/2 pints SUTAN+/ATRAZINE 4.4-F per acre in the late fall before the ground freezes.

See Appendix IV for directions on use of dry bulk fertilizer applied in the Fall with this combination.

NOTE: Do not use Fall application for suppression of wild cane.

# CULTURAL PRACTICES FOLLOWING APPLICATION

Should weeds develop, a shallow cultivation or rotary hosing will generally result in better weed control. When cultivating for any reason, it should be shallow; i.e., no more than 1/2 the depth the herbicide was incorporated.

#### APPENDIX I

# SOIL MIXING (INCORPORATION) BEFORE PLANTING DIRECTIONS

The following equipment commonly is used for soil mixing (incorporation) before planting,

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<u>Power-Driven Cultivation Equipment</u> (recommended on all soil types previously primary tilled): All PTO driven cultivation tools must be adjusted so as to have a tillage action speed (originating from internal gears and/or tractor gear) synchronized to the tractor's forward speed so that thorough soil mixing is obtained.

- a. Horizontal axis of rotation: set to cut 2 to 3 inches deep.
- b. Vertical axis of rotation; set to cut 6 to 8 inches deep .

Tandem discs (recommended on all soil types): Set to cut to a depth o 4 to 6 inches, operated at 4 to 6 mph followed by a spiked-tooth harrow or some other leveling device which extends beyond the ends of the discs. For more thorough mixing (for control of deepgerminating grasses - wild came, seedling johnsongrass and nutsedge), disc in two different directions. When discing the second time, the disc should be reset to cut no deeper than 4 to 6 inches.

<u>Field cultivator</u> (recommended on lighter soils in good tilth): Use 3 to 4 rows of sweeps spaced at 7 inch or less intervals and staggered so that no soil is left unturned, followed by a spiked-tooth harrow pulled behind the cultivator. Do not use chisels or points. Set the cultivator to cut 4 to 6 inches deep, operated at 5 mph or more. The field cultivator should not be used alone as an incorporation tool where control of deep-germinating weeds such as nutgrass, johnsongrass seedlings or wild cane is desired. For control of these weeds, use a disc alone for at least one of the passes over the field.



#### APPENDIX II

PROCEDURE FOR TESTING THE COMPATIBILITY OF SUTAN+/ATRAZINE 4.4-F WITH FLUID FERTILIZERS

The following procedure is suggested for determining whether SUTAN+/ATRAZINE, 4.4-F may be combined with a specific fluid fertilizer for spray tank application .

# MATERIALS REQUIRED:

- 1.SUTAN+/ATRAZINE 4.4-F
- 2.Fluid fertilizer to be used.
- 3.Tank mix adjuvants for fluid fertilizer combinations: Compex\*, Sponto 168-D\*, Uni-Mix\*, Unite\* or equivalent. The adjuvant which provides the best compatibility depends on the specific fertilizer involved.
- \*Compex, Kalo La&Ur-atories Inc., Kansas City, Missouri; Sponto 168-D, Witco Chemical Company, Houston, Texas; Uni-Mix, Thompson-Hayward Chemical Co., Kansas City, Kansas; Unite, Hopkins Agricultural Chemical Company, Madison, Wisconsin.
- 4. Two one-quart, wide-mouth glass jars with lids.
- 5. Measuring spoons; a graduated pipette or cylinder will provide more accurate measurement; 1 tablespoon equals 3 teaspoons, 1 teaspoon equals approximately 5 milliliters.
- 6. Measuring cup, 8 oz. (237 ml).

# PROCEDURE:

- 1. Pour a pint (473 ml) of the fluid fertilizer into each of the quart jars.
- 2.Add adjuvant to one of the jars and mix (see next rate table).
- 3.Add the SUTAN+/ATRAZINE 4.4-F to both jars
- 4. Close both jars with lids and mix the contents by turning the jars upside down ten times.



- 5. Inspect the surface and body of the mixtures
  - (A) Immediately after completing the jar inversions.
  - (B) After allowing the jars to stand quietly for 30 minutes.
  - (C). And then again after turning the jars upside down 10 times.

If a uniform mix cannot be made, the mixture should not be used. If either mixture remains uniform for 30 minutes, the combination may be used. Should either mixture separate after 30 minutes, but readily remix uniformly with ten jar inversions, the mixture can be used if adequate agitation is maintained in the tank. If the mixture with adjuvant is satisfactory, but the one without adjuvant is not, be sure to use the adjuvant in the spray tank. Add the adjuvant first at a rate of 3 pints per 100 gailons of fluid fertilizer; foaming can be minimized by using moderate agitation.

If nondispersible oil, sludge or, clumps of solids form in the mixtures, the combination should not be used.

Rate Table\* for SUTAN+/ATRAZINE 4.4-F and Adjuvent\*\* with the Fluid Fertilizer

Gallons of Fluid Fertilizer be applied per acre	ml. or teaspoon of Sutan+/Atrazine 4.4-F to be added to 1 pint of Fertilizer						
	<u> Pl</u>	Tsp.					
10	14-1/2	3					
15	10	2					
20	7-1/2	1-1/2					
25	6	1-1/4					
30	5	1					
40	4	3/4					

<sup>\*</sup> Based on field rate of 1 pound SUTAN and 1/3 pound ATRAZINE per acre in the fertilizer volumes indicated. Increase volume proportionately to correspond with intended field rate in- 't.(-rms of pounds active ingredient per acre (e.g. for field rate of 4 pounds actual SUTAN and 1-1/3 pounds ATRAZINE in 40 gallons fertilizer per acre, add 16 ml. or 3 tsp. SUTAN+/ATRAZINE 4.4-F to cach jar for compatibility testing purposes).

Two (2) milliliters or one-half (112) teaspoon of adjuvant-should be added to 1 pint of fluid fertilizer in order to equal <a href="https://example.com/equal-the\_rate">-the\_rate</a> of 3 pints of adjuvant per 100 gallons of fluid fertilizier.



#### STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

STORAGE: Keep container tightly closed when not in use. Do not store near seeds, fertilizers or foodstuffs. Can be stored at temperatures as low as minus 30\*F.

<u>PESTICIDE DISPOSAL</u>: Rinse spray equipment. Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to Federal or approved state procedures under Subtitle C of the Resource Conservation and Recovery Act.

<u>CONTAINER DISPOSAL</u>: Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other approved state or local procedures.

#### NOTICE - READ CAREFULLY

Notice to Buyer and User: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Seller, and Buyer and User assume the risk of any such use.

SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

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