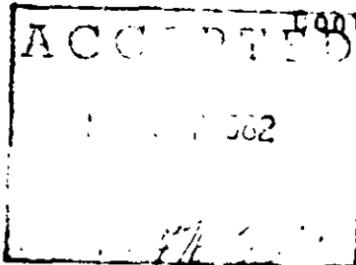


(Stauffer Shields)

SUTAN+/ATRAZINE 4.4-1
Selective Herbicide-Flowable
For Corn (Field, Sweet, Silage and Popcorn)

<u>ACTIVE INGREDIENTS:</u>	
S-ethyl diisobutylthiocarbamate	39.00 %
Atrazine: 2-chloro-4-(ethylamino)-6-(isopropylamino)-s-triazine	12.35 %
Related Triazines	0.65 %
<u>INERT INGREDIENTS:</u>	48.00 %
	<u>100.00 %</u>



Contains 4.4 Pounds of Active Ingredients Per Gallon

KEEP OUT OF REACH OF CHILDREN.
D A N G E R
CORROSIVE, CAUSES IRREVERSIBLE EYE DAMAGE
HARMFUL IF SWALLOWED.

STATEMENT OF PRACTICAL TREATMENT

FIRST AID: If swallowed, DO NOT 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.

For eye contact, hold eyelids apart and flush with large amounts of running water for at least 15 minutes. Call a physician. For skin contact, 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 reuse.

If inhaled, remove to fresh air. Get medical attention if respiratory irritation occurs.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
D A N G E R
CORROSIVE, CAUSES IRREVERSIBLE EYE DAMAGE

H A R M F U L I F S W A L L O W E D. Corrosive, causes eye damage. Do not get in 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.

ENVIRONMENTAL HAZARDS: Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

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

READ ALL LABEL DIRECTIONS BEFORE USING

• SUTAN and SUTAN+ are registered in the U. S. Patent and Trademark Offices

This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified: Country: United States of America Patent No. 4,021,224; 4,137,070.

EPA Reg. No. 476-2208 5 Gal. Net 18.9 L A-1

EPA Est. 476-NB-1 Made in U.S.A. by
STAUFFER CHEMICAL COMPANY
Westport, CT 06881-0850

WEEDS CONTROLLED BY SUTAN+/ATRAZINE 4.4-FAnnual Grasses:

Barnyardgrass, Watergrass	(<u>Echinochloa crus-galli</u>)
Broadleaf Signalgrass††	(<u>Brachiaria platyphylla</u>)
Crabgrass	(<u>Digitaria</u> spp.)
Fall Panicum	(<u>Panicum dichotomiflorum</u>)
Field Sandbur*	(<u>Cenchrus pauciflorus</u>)
Giant Foxtail	(<u>Setaria faberi</u>)
Green Foxtail	(<u>Setaria viridis</u>)
Goosegrass	(<u>Eleusine indica</u>)
Seedling Bermudagrass	(<u>Cynodon dactylon</u>)
Seedling Johnsongrass*	(<u>Sorghum halepense</u>)
Texas Panicum††, Buffalograss, Coloradograss	(<u>Panicum texanum</u>)
Volunteer Sorghum*	(<u>Sorghum</u> spp.)
Wild Cane†, Shattercane, Black Amber Cane, Chicken Corn, Scatter Cane	(<u>Sorghum bicolor</u>)- See Wild Cane Rate and Cultural Recommendations
Wild Oats	(<u>Avena fatua</u>)
Witchgrass	(<u>Panicum capillare</u>)
Yellow Foxtail	(<u>Setaria glauca</u>)

†Partial control (suppression) only.

*Cultivation is suggested in addition to the SUTAN+/ATRAZINE 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	(<u>Ipomoea purpurea</u>)
Carpetweed	(<u>Mollugo verticillata</u>)
Common Cocklebur	(<u>Xanthium pensylvanicum</u>)
Common Lambsquarters	(<u>Chenopodium album</u>)
Common Purslane	(<u>Portulaca oleracea</u>)
Florida Purslane	(<u>Richardia scabra</u>)
Jimsonweed	(<u>Datura stramonium</u>)
Mustards	(<u>Brassica</u> spp.)
Nightshade	(<u>Solanum</u> spp.)
Prostrate Pigweed	(<u>Amaranthus graecizans</u>)
Ragweed	(<u>Ambrosia</u> spp.)
Redroot Pigweed	(<u>Amaranthus retroflexus</u>)
Sicklepod†, Coffeeweed	(<u>Cassia obtusifolia</u>)
Smartweed	(<u>Polygonum</u> spp.)
Smooth Pigweed	(<u>Amaranthus hybridus</u>)
Velvetleaf	(<u>Abutilon theophrasti</u>)

+Southeast Region only.

Perennial Weeds:

Hemp Dogbanet	(<u>Apocynum cannabinum</u>)
Purple Nutgrass, Nutsedge	(<u>Cyperus rotundus</u>)
Rhizome Bermudagrass+	(<u>Cynodon dactylon</u>)
Rhizome Johnsongrass†	(<u>Sorghum halepense</u>)
Yellow Nutgrass, Nutsedge	(<u>Cyperus esculentus</u>)

†Partial control (suppression) only.

+Southeast Region only.

Existing stands of nutgrass 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 nutgrass 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 hot and dry weather, insect or plant disease 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 flames, fertilizers, or foodstuffs.

SUTAN+/ATRAZINE 4.4-F

4.

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 pre-irrigation.

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.

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.

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 found 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.

APPLICATION AND SOIL INCORPORATION DIRECTIONSSPRAY 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 boom-type 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. The soil must be in good tilth. Improper discing or poor tilth (large clods) may result in unsatisfactory control.

CENTER PIVOT SPRINKLER APPLICATION

Apply SUTAN+/ATRAZINE 4.4-F with irrigation water before planting (see PLANTING), or immediately after planting before either corn or weeds emerge. It is important that application be done immediately after the last tillage operation since poor results will occur if the weeds have germinated before application of the herbicide. Meter the pre-mixed SUTAN+/ATRAZINE 4.4-F into the irrigation water during the entire period. Apply in 1/2 to 1 inch of water or sufficient water to penetrate the soil to a depth of 5 to 7 inches. Good agitation should be maintained during the entire application period.

USE PRECAUTIONS:

- A. Apply the product only through center pivot irrigation systems containing anti-siphon and check valves which will prevent water source contamination and overflow of the slurry tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off.

- B. Inject the product with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.
- C. Application of more than recommended quantities of irrigation water may result in decreased product performance by removing the chemical from the zone of effectiveness.
- D. Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained.

PLANTING

Do not plant seed deeper than 2 inches. For a SUTAN+/ATRAZINE 4.4-F application 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 necessary 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 in the ten Southernmost 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, nutgrass, sandbur, johnsongrass seedlings, rhizome bermudagrass, Texas panicum or volunteer sorghum.

Broadcast Rates Per Acre Conventional sprays and center pivot sprinklers.

For control of annual grasses and broadleaf weeds: Use 7-1/4 to 9-3/4 pints SUTAN+/ATRAZINE 4.4-F 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 for 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°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 herbicide.

For control of Johnsongrass and Bermudagrass (in addition to the broadleaf weeds and annual grasses listed): Apply and disc-incorporate 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.

In some areas discing 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.

Fall Application: For use only in Minnesota, Northern Iowa (North of Interstate 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 hoeing 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.

Power-Driven Cultivation Equipment (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 of 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 deep-germinating grasses - wild cane, seedling johnsongrass and nut-sedge), disc in two different directions. When discing the second time, the disc should be reset to cut no deeper than 4 to 6 inches.

Field cultivator (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 Laboratories 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 gallons 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 Adjuvant**
 with the Fluid Fertilizer

Gallons of Fluid Fertilizer to be applied per acre	ml. or tsp. of SUTAN+/ATRAZINE 4.4-F to be added to 1 pint of Fertilizer	
	ml.	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

* 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 terms 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 each jar for compatibility testing purposes).

** Two (2) milliliters or one-half (1/2) teaspoon of adjuvant should be added to 1 pint of fluid fertilizer in order to equal the rate of 3 pints of adjuvant per 100 gallons of fluid fertilizer.

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.

PESTICIDE DISPOSAL: 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.

CONTAINER DISPOSAL: 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

CONDITIONS OF SALE: Stauffer (and seller) offer(s) this product for sale subject to, and buyer and all users are deemed to have accepted, the following conditions of sale and warranty which may only be varied by written agreement of a duly authorized representative of Stauffer.

WARRANTY LIMITATION: Stauffer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the directions for use on the label subject to the inherent risks referred to below. Stauffer makes no other express warranties: THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY and there are no warranties which extend beyond the description on the label hereof.

INHERENT RISKS: The directions for use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks associated with use. Buyer assumes all risks associated with use or application of this product contrary to label instructions or resulting from extraordinary weather conditions.

LIMITATION OF LIABILITY: In no case shall Stauffer be liable for special, indirect, or consequential damages resulting from the use or handling of this product and no claim of any kind shall be greater in amount than the purchase price of the product in respect of which such damages are claimed.