

PM-25 476-2207

P/20

(Stauffer Shield)

ACCEPTED
NOV - 6 1986
Under Federal Insecticide, Fungicide, and Rodenticide Act, as amended for the pesticide regulatory program EPA Reg. No. 476-2207

ERADICANE® EXTRA

Selective Herbicide

Pre-plant Incorporated Liquid Herbicide
for Tough Weed Control in Corn

ACTIVE INGREDIENT:

S-ethyl dipropylthiocarbamate..... 72.2%

INERT INGREDIENTS:..... 27.8%
100.0%

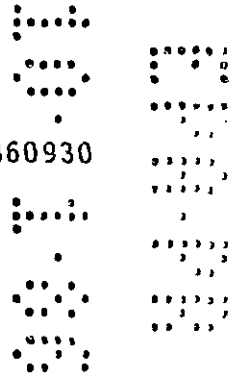
6-E Contains 6.0 lbs. Active Ingredient Per Gallon

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 Nos. 4,021,224; 4,137,070 and other patents pending.

_____ Gal Net _____ L

EPA Reg. No. 476-2207
EPA Est. No. 476-

R 860930



Made in U.S.A. by
STAUFFER CHEMICAL COMPANY
WESTPORT, CT. 06881-0854

Keep Out of Reach of Children

C A U T I O N

Harmful if Swallowed

Statement of Practical Treatment

FIRST AID

Immediately start the procedures below. If further treatment is required contact a Poison Center, a physician, or the nearest hospital or call collect, day or night, (203) 226-6602 Stauffer Chemical Company, or (800) 424-9300 Pesticide Safety Team Network.

IF SWALLOWED: Immediately give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

FOR EYE CONTACT: Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately.

FOR SKIN CONTACT: Flush all affected areas with plenty of water for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation occurs.

IF INHALED: Remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

Precautionary Statements

Hazards to Humans and Domestic Animals

C A U T I O N

HARMFUL IF SWALLOWED - Avoid contact with skin, eyes and clothing. Avoid inhalation of spray mist. Wear rubber gloves and fresh clothing. Wear goggles to avoid contact with eyes. Wash with soap and water immediately after use or contact. Do not contaminate food or feed.

ENVIRONMENTAL HAZARDS - Keep out of any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL AND CHEMICAL HAZARDS - Keep away from heat and flame. Do not apply this product in such a manner as to directly or through drift, expose workers or other persons. When applied through the sprinkler irrigation method of application, the area being treated must be vacated by unprotected persons.

Can be stored at temperatures as low as minus 50°F.

GENERAL USE PRECAUTIONS

READ ALL LABEL DIRECTIONS BEFORE USING

ERADICANE EXTRA should be used for recommended purposes and at recommended rates (DO NOT OVERDOSE).

ERADICANE EXTRA is recommended for use on mineral soils only (soils containing less than 10% organic matter).

Do not use on milo or sorghum. Do not use on corn seed stock (Breeders, Foundation or Increase). ERADICANE EXTRA may be used on Production seed corn.

Do not contaminate water to be used on susceptible crops and ornamentals, or for domestic purposes. Do not contaminate feed or food. Keep container tightly closed when not in use. Do not store near seeds or fertilizers.

When properly applied and weather conditions exist for normal plant growth through the season, ERADICANE EXTRA will not harm the treated crop nor should harmful soil residues remain beyond harvest. However, during germination and early growth, extended periods of unusually cold and wet or hot and dry weather, insect, nematode, or plant disease attack, carry-over soil residues of certain persistent herbicides, the use of certain soil applied systemic insecticides may create abnormal conditions that weaken crop seedlings. ERADICANE EXTRA used under these abnormal conditions could result in crop injury.

WEEDS CONTROLLED BY ERADICANE EXTRA

ERADICANE EXTRA will not control established weeds.

ANNUAL GRASSES:

Barnyardgrass (Watergrass, junglerice)	(<u>Echinochloa spp.</u>)
Bermudagrass - seedlings	(<u>Cynodon dactylon</u>)
Bluegrass, annual	(<u>Poa annua</u>)
Crabgrass	(<u>Digitaria spp.</u>)
Cupgrass, woolly	(<u>Eriochloa villosa</u>)
Foxtail, giant	(<u>Setaria faberi</u>)
Foxtail, green	(<u>Setaria viridis</u>)
Foxtail, yellow	(<u>Setaria glauca</u>)
Goosegrass	(<u>Eleusine indica</u>)
Johnsongrass - seedlings	(<u>Sorghum halepense</u>)
Millet, wild proso**	(<u>Panicum miliaceum</u>)
Oats, wild	(<u>Avena fatua</u>)
Panicum, fall	(<u>Panicum dichotomiflorum</u>)
Panicum, Texas (Coloradograss)*†	(<u>Panicum texanum</u>)
Rescuegrass	(<u>Bromus willdenowii</u>)
Rice, red	(<u>Oryza sativa</u>)
Ryegrass, annual (Italian ryegrass)	(<u>Lolium multiflorum</u>)
Sandbur, field*	(<u>Cenchrus pauciflorus</u>)
Shattercane*† (Wild cane)	(<u>Sorghum bicolor</u>)
Signalgrass	(<u>Brachiaria spp.</u>)
Stinkgrass (Lovegrass)	(<u>Eragrostis cilianensis</u>)

Other volunteer grains, i.e. barley, oats, wheat

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¶ Partial Control (suppression) See Wild Cane Section.

*Cultivation is suggested in addition to ERADICANE EXTRA treatment in fields with moderate to heavy infestations of wild cane, sandbur, Texas panicum, or wild proso millet.

†Southeastern U. S. Only.

††Central Region Only - Partial Control (Suppression)

ANNUAL BROADLEAF WEEDS:

Carpetweed	(<u>Mollugo verticillata</u>)
Chickweed, common	(<u>Stellaria media</u>)
Fiddleneck	(<u>Amsinckia spp.</u>)
Goosefoot, nettleleaf	(<u>Chenopodium murale</u>)
Henbit (Deadnettle)	(<u>Lamium amplexicaule</u>)
Lambsquarters, common	(<u>Chenopodium album</u>)
Morningglory, tall	(<u>Ipomoea purpurea</u>)
Nightshade, black	(<u>Solanum nigrum</u>)
Nightshade, hairy	(<u>Solanum sarachoides</u>)
Pigweed, prostrate	(<u>Amaranthus graecizans</u>)
Pigweed, redroot (Common)	(<u>Amaranthus retroflexus</u>)
Pigweed, tumble	(<u>Amaranthus albus</u>)
Puncturevine**	(<u>Tribulus terrestris</u>)
Purslane, common	(<u>Portulaca oleracea</u>)
Pusley, Florida	(<u>Richardia scabra</u>)
Sicklepod	(<u>Cassia obtusifolia</u>)
Sida, prickly (Teaweed)	(<u>Sida spinosa</u>)
Shepherdspurse	(<u>Capsella bursa-pastoris</u>)
Spurry, corn	(<u>Spergula arvensis</u>)
Velvetleaf	(<u>Abutilon theophrasti</u>)

** Western Region only.

The annual broadleaf weeds listed above will be controlled only if treatment is made when conditions are favorable for weed seed germination and growth. Under prolonged conditions of very cold soil, control of the above broadleaf weeds may not be adequate.

PERENNIAL GRASSES:

Bermudagrass	(<u>Cynodon dactylon</u>)
Johnsongrass, rhizome	(<u>Sorghum halepense</u>)
Nutsedge, purple (Nutgrass)	(<u>Cyperus rotundus</u>)
Nutsedge, yellow (Nutgrass)	(<u>Cyperus esculentus</u>)
Quackgrass	(<u>Agropyron repens</u>)

Perennial weeds must be turned under and chopped up thoroughly prior to treatment. The underground rhizomes of quackgrass and johnsongrass and the rhizomes and stolons of bermudagrass must be cut up thoroughly into small pieces so that 4 or less nodes remain on a strand.

Consult RECOMMENDATIONS for ERADICANE EXTRA rates necessary to control the above listed weeds.

DIRECTIONS FOR USE

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

ERADICANE EXTRA is a selective herbicide which must be mixed (incorporated) into the soil for control of weeds listed on this label. ERADICANE EXTRA controls weeds by interfering with normal germination and seedling development. ERADICANE EXTRA does not control established weeds.

APPLICATION DIRECTIONS

Pour the recommended amount of ERADICANE EXTRA into the spray tank during the filling operation. Apply in 10 to 50 gallons of water per acre using a properly calibrated, low-pressure sprayer having good agitation. The soil should be well-worked and dry enough to permit good soil mixing (incorporation). See Appendix I for soil mixing directions.

For band applications, calculate the amount to be applied per acre as follows:

$$\frac{\text{Band Width in Inches}}{\text{Row Width in Inches}} \times \text{Rate/A for Broadcast Treatment} = \text{Amount Needed for Band Treatment}$$

COMBINATION WITH FLUID FERTILIZERS

ERADICANE EXTRA may be combined with fluid (solution, slurry or suspension) fertilizers. However, physical compatibility with these fertilizers must be verified before combining in the spray tank. See Appendix II for special directions regarding these combinations. Even though ERADICANE EXTRA may be found compatible with fluid fertilizers, constant agitation is necessary to maintain uniformity of this mixture during application.

IMPREGNATION ON DRY BULK FERTILIZERS

ERADICANE EXTRA may be impregnated on dry fertilizer and applied as the fertilizer is spread. See Appendix III for information and directions regarding impregnation and use of these combinations.

CENTER PIVOT SPRINKLER APPLICATION

Apply and soil incorporate ERADICANE EXTRA, ERADICANE EXTRA/ATRAZINE, or ERADICANE EXTRA/BLADEX* (see TANK MIX RECOMMENDATIONS) with irrigation water before planting (see PLANTING), or immediately after planting before either corn or weeds emerge. It is important that application and incorporation 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 ERADICANE EXTRA or tank mix combinations with ATRAZINE or BLADEX into the irrigation water during the entire period. Apply in 1/2 to 3/4 inches of water.

USE PRECAUTIONS

- A. Apply the product only through center pivot irrigation systems containing anti-siphon and check valves. These safety devices will prevent backflow into and contamination of the water source and overflow of the slurry tank. Install 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 per acre 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.
- E. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute slurry per hour.

EXAMPLE:

110 Acres to be covered by 5-1/3 pints (4 lbs. active)
ERADICANE EXTRA

110 A. x 4 lbs. = 440 lbs. active ERADICANE EXTRA

$$\frac{440}{6.0} = 73.3 \text{ gals. ERADICANE EXTRA}$$

Mixing tank size 750 gallons. Sprinkler takes 30 hours to apply 1/2 inch of water.

$$\text{Injection rate} = \frac{750}{30} = 25 \text{ gal./hr. or } 0.4 \text{ gal./minute}$$

Calibrate injection pump to deliver the herbicide mix into the irrigation system at the rate of 25 gal. per hr. or 0.4 gal. per minute.

PLANTING

Plant seed to a maximum depth of 2 inches within 2 weeks after treatment. To avoid removing ERADICANE EXTRA 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.

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. A sequential application of 2,4-D, BANVEL* 4E or a pre-emergence or post-emergence herbicides may be necessary to control weeds resistant to ERADICANE EXTRA.

RECOMMENDATIONS

Consult the U.S. regional map below and use the recommendations in your region only.

IMPORTANT: Limit use on sweet corn to 5-1/3 pints ERADICANE EXTRA per acre with the exception of Minnesota and Wisconsin where up to the full rate of 8 pints per acre can be used.

EASTERN U.S. (NOTE: In the Southeastern U.S., when ERADICANE EXTRA is used for weed control in silage corn, do not seed small seeded grains after corn harvest until September).

CENTRAL U.S. (NOTE: Western slope of Colorado: Where furrow irrigation will be used when corn is flat planted, do not form furrows until corn is in the three-leaf stage).

WESTERN U.S. (NOTE: ERADICANE EXTRA is not recommended on corn grown in Arizona or in the 10 Southernmost California counties. In California, do not use ERADICANE EXTRA on corn planted after May 1).

NOTE: Soils lacking sufficient moisture for seed germination must be preirrigated prior to ERADICANE EXTRA application.

NOTE: Do not use on "Golden Jubilee" sweet corn west of the Cascade Mountains in Oregon or Washington.

(Regional Use Map - ERADICANE EXTRA)

ERADICANE EXTRA

PREPLANT INCORPORATION:

BROADCAST RATE PER ACRE IN PINTS

WEED	EASTERN U.S.	CENTRAL U.S.	WESTERN U.S.	RESTRICTIONS
Annual Grasses & Annual Broadleaf Weeds	4 to 5 1/3	4 to 8	4 to 5 1/3	Use the lower rate for light infestations and in sand and light (coarse textured) soils.
Bermudagrass	5 1/3 to 8	5 1/3 to 8	4 to 5 1/3	Use the higher rate for heavy infestations.
Nutsedge	5 1/3 to 8	5 1/3 to 8	4 to 8	
Quackgrass	8	6 2/3 to 8	5 1/3	For control of moderate infestations and suppression of heavy infestations.
Rhizome Johnsongrass	8	8	8	Application should follow a program of plowing and discing for control. See special instructions.
Sandbur, Field	4	5 1/3 to 8	5 1/3 to 8*	
Wild Cane (Suppression)	6 2/3 to 8	6 2/3 to 8	-	Partial control (suppression) only in central U.S. See special instructions.
Wild Oat	4	4	4 to 5 1/3*	
Wild Proso Millet (Suppression)	-	5 1/3 to 8	-	Control will be improved with combination treatment of ERADICANE EXTRA/ATRAZINE or ERADICANE EXTRA/BLADEX.
Velvetleaf	8	8	5 1/3 to 8	See tank mix section.

*Use the lower rates on sand and light (coarse textured) soils. Use the higher rates on heavy (fine textured) soils.

followed by ERADICANE EXTRA will give good control of seedlings and rhizomes.

In some areas discing 2 to 3 times spaced at 4 to 5 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 fall plowing and discing cuts rhizomes into small pieces and brings them to the surface, where both weather and ERADICANE EXTRA will kill or weaken them.

Velvetleaf:

For control of velvetleaf use 5 1/3 to 8 pints of ERADICANE EXTRA plus 2 pounds of ATRAZINE 80' or 3 pints of ATRAZINE 4L per broadcast acre.

Wild Cane - For partial control (suppression) - Apply 6 2/3 to 8 pints ERADICANE EXTRA per acre. Use the higher rate on heavy infestations or on soils with higher organic content. For enhanced control of wild cane, especially with heavy infestations, ERADICANE EXTRA should be used in combination with ATRAZINE, BLADEX, or PRINCEP* (see TANK MIX COMBINATIONS).

The following practices are recommended for suppression of Wild Cane:

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 immediately and thoroughly. If application of ERADICANE EXTRA is made impregnated on dry bulk fertilizer and a delay of incorporation is expected, make certain the delay does not exceed 4 hours. If delay is expected when impregnated, make certain application is made to a dry soil surface (at least 1/2 inch deep) that is free from dew or incidental moisture.
5. Incorporation directions:
 - a. Power tillers, or

*PRINCEP is a registered trademark of Ciba Geigy Corporation.

- b. tandem disc set to cut 5-6" deep followed by a second pass at an angle to the initial set to cut 4" deep, or
 - c. tandem disc set to cut 5-6" deep followed by a field cultivator at an angle to the initial pass set to cut 4" deep.
6. Cultivate immediately if wild cane emerges. Cultivation should be shallow, no more than 1/2 the depth of incorporation of the herbicide.

CENTER PIVOT SPRINKLER APPLICATION

Apply 4 to 8 pints of ERADICANE EXTRA per acre for control of annual grasses and annual broadleaf weeds. ATRAZINE or BLADEX may be tank mixed with ERADICANE EXTRA for sprinkler application (see TANK MIX RECOMMENDATIONS).

SUBSURFACE INJECTION

(Southeastern U.S. with coarse textured soils only)

Apply 4 pints of ERADICANE EXTRA for control of light infestations of annual grasses (except wild cane), annual broadleaf weeds, and nutsedge. Adjust the dosage proportionately depending on the row spacing and width to be treated.

TANK MIX COMBINATIONS

For control of additional weeds and for increased control of labelled broadleaf weeds, ATRAZINE, BLADEX, PRINCEP or a combination of ATRAZINE and BLADEX may be tank mixed with the recommended rates of ERADICANE EXTRA and applied preplant incorporated. ERADICANE EXTRA/ATRAZINE or ERADICANE EXTRA/BLADEX may be applied through a center pivot irrigation system.

As an alternative, ERADICANE EXTRA can be applied preplant incorporated at recommended rates followed by ATRAZINE applied pre-emergence to soil surface. Consult the pre-emergence application directions on the ATRAZINE label. A rotary hoeing or shallow cultivation is recommended if rainfall or sprinkler irrigation has not occurred within 10 days of the surface application. For enhanced or additional broadleaf weed control, an overlay treatment of 2,4-D or BANVEL 4E may be made.

With the combination of ERADICANE EXTRA/BLADEX/ATRAZINE, the potential hazard of ATRAZINE residues affecting certain crops the following year is reduced because a lower rate of ATRAZINE can be used.

ADDITIONAL WEEDS CONTROLLED BY ERADICANE EXTRA/ATRAZINE AND
ERADICANE EXTRA/BLADEX TANK MIX

ANNUAL GRASSES:

Witchgrass (Panicum capillare)

ANNUAL BROADLEAF WEEDS:

Cocklebur, common	(<u>Xanthium pensylvanicum</u>)
Jimsonweed	(<u>Datura stramonium</u>)
Kochia	(<u>Kochia scoparia</u>)
Mallow, Venice	(<u>Hibiscus trionum</u>)
Mustard	(<u>Brassica spp.</u>)
Ragweed	(<u>Ambrosia spp.</u>)
Smartweed	(<u>Polygonum spp.</u>)
Thistle, Russian*	(<u>Salsola kali</u>)

*Controlled by ERADICANE EXTRA/ATRAZINE TANK MIX only.

ERADICANE EXTRA/ATRAZINE and ERADICANE EXTRA/BLADEX TANK MIX will control these additional weeds and improve the control of broadleaf weeds listed under "Weeds Controlled by ERADICANE EXTRA" alone, if unfavorable conditions exist.

ADDITIONAL WEEDS CONTROLLED BY ERADICANE EXTRA/PRINCEP TANK MIX
ANNUAL BROADLEAF WEEDS:

Cocklebur, common	(<u>Xanthium pensylvanicum</u>)
Jimsonweed	(<u>Datura stramonium</u>)
Ragweed	(<u>Ambrosia spp.</u>)
Smartweed	(<u>Polygonum spp.</u>)

ERADICANE EXTRA/PRINCEP TANK MIX will control these additional weeds and improve the control of broadleaf weeds listed under "Weeds Controlled by ERADICANE EXTRA" alone, if unfavorable conditions exist.

APPLICATION DIRECTIONS

Apply ERADICANE EXTRA/ATRAZINE, ERADICANE EXTRA/BLADEX, ERADICANE EXTRA/PRINCEP or ERADICANE EXTRA/BLADEX/ATRAZINE in 20-50 gallons of water per acre. It is recommended that the compatibility of tank mix combinations be tested on a small scale, for example, a jar test before actual tank mixing. See Appendix II which describes the procedure for such tests.

RECOMMENDATIONSBROADCAST RATES PER ACRE:

ATRAZINE: Use the recommended rates of ERADICANE EXTRA plus 1-1/4 to 2 pounds of ATRAZINE 80W or 2 to 3 pints of ATRAZINE 4L per acre for both tank mix (preplant incorporation or center pivot sprinkler application) and sequential application. Use the higher rate of ATRAZINE in soils with over 5% organic matter.

BLADEX: Use the recommended rates of ERADICANE EXTRA plus 2 to 2-1/2 pounds of BLADEX 80W or 3 to 4 pints BLADEX 4L per acre for preplant incorporation or application through center pivot sprinkler system. Use the lower rate of BLADEX on sand or loam soils. Use the higher rate of BLADEX on fine textured (clay) soils or soils with 3% organic matter and above.

PRINCEP: Use 1-1/4 to 3-3/4 pounds of PRINCEP 80W, 1-1/10 to 3-1/3 pounds of PRINCEP CALIBER®* 90 or 2 to 6 pints of PRINCEP 4L per acre with recommended rates of ERADICANE EXTRA preplant incorporated. Use the higher rate of PRINCEP on fine-textured soils and where heavy broadleaf weed infestations are expected.

BLADEX/ATRAZINE: Use the recommended rate of ERADICANE EXTRA plus 1-1/4 to 2-1/2 pounds of BLADEX 80W or 2 to 4 pints of BLADEX 4L and 3/4 to 1-1/4 pounds of ATRAZINE 80W or 1 to 2 pints of ATRAZINE 4L per acre. BLADEX and ATRAZINE should be used in a two to one proportion.

2,4-D or BANVEL 4E: Use the amount of 2,4-D or BANVEL 4E recommended on the manufacturers label.

NOTE: BLADEX is not recommended for use on sandy soils consisting of more than 70% sand and containing less than 1% organic matter. CONSULT the BLADEX label for more specific recommended rates on sandy soils.

Follow all the use precautions and warnings that appear on the ATRAZINE, BLADEX and PRINCEP labels and supplemental literature.

Make only one application per crop. After a treatment including ATRAZINE, do not plant to any crop except corn until the following year or injury may occur.

Do not plant to alfalfa where more than 1.2 pounds actual ATRAZINE was used the previous year.

PRECAUTIONS TO FOLLOW WHEN USING ERADICANE EXTRA/PRINCEP:

Do not rotate to any crop except corn until the following year or injury may occur.

After harvest, plow and thoroughly till the soil in fall or spring to minimize possible injury to spring-seeded rotational crops, regardless of rate used.

Do not apply ERADICANE EXTRA/PRINCEP 80W, ERADICANE EXTRA/PRINCEP CALIBER 90 or ERADICANE EXTRA/ PRINCEP 4L in the High Plains and Intermountain areas of the WEST (including central and western KS, western NE, western OK, and the Panhandle of TX) where rainfall is sparse and erratic or where irrigation is required.

Injury may occur to soybeans planted in north-central and northwest IA, south-central and southwest MN, northeast NE, southeast SD, and other areas the year following application on soils having a calcareous surface layer.

Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small-seeded legumes and grasses the year after ERADICANE EXTRA/PRINCEP 80W, ERADICANE EXTRA/PRINCEP CALIBER 90 or ERADICANE EXTRA/PRINCEP 4L application or injury may occur.

TANK MIXING DIRECTIONS

1. Fill a thoroughly rinsed and uncontaminated spray tank 2/3 full of clean water.
2. Start agitation and continue moderate agitation throughout mixing.
3. Mix and disperse wettable powders first, flowable products next and ERADICANE EXTRA last.
4. Premix the BLADEX, ATRAZINE or PRINCEP products individually in proper order (step 3 above) making sure the products are thoroughly wetted and dispersed in the tank prior to adding ERADICANE EXTRA.
5. Add the ERADICANE EXTRA to the tank 2/3 full of water already mixed with BLADEX, ATRAZINE or PRINCEP.
6. Complete filling the remaining portion of the tank with water; mix thoroughly, maintain moderate agitation to provide a uniform mix during application.
7. The tank-mix combination should not be left in the spray tank for prolonged periods; batches should be mixed and applied the same day.

Do not use excessive agitation as it may cause the BLADEX, ATRAZINE or PRINCEP to settle out and set up in the spray tank. All return lines to the tank must discharge below liquid level.

APPENDIX I

SOIL MIXING (INCORPORATION) DIRECTIONS:

ERADICANE EXTRA must be incorporated into the soil to prevent loss of the herbicide. Whenever possible, application and incorporation should be done in the same operation. If there must be a delay (less than four hours) in incorporation of the herbicide when application and incorporation are done in separate operations, ERADICANE EXTRA must be applied to a dry soil surface (at least 1/2 inch deep) and free from dew and incidental moisture. (Refer to special directions for Wild Cane suppression).

Pacific Northwest Region (Semi-arid areas of Eastern Washington, Eastern Oregon and Idaho only): When application and incorporation are done in separate operations, ERADICANE EXTRA must be incorporated on the same day as applied. Application must be made on a dry soil surface (at least 1/2 inch deep) free from dew and incidental moisture.

DELAYED INCORPORATION OF DRY BULK FERTILIZER: The application and incorporation of ERADICANE EXTRA must be carried out on the same day and delayed only if soil moisture conditions permit. See Appendix III for directions on the delay in soil incorporation. (Refer to special instructions for Wild Cane suppression).

IMPORTANT: Thorough mixing of ERADICANE EXTRA in the soil is necessary. The soil must be in good tilth and cross discing is recommended. Improper discing or poor tilth (large clods) may result in unsatisfactory control.

INCORPORATION 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): Ground speed should be adjusted with all PTO driven cultivation tools to insure thorough soil mixing.

- a. Horizontal action: Set to cut 4 to 6 inches deep.
Example: Lely Roterra, Niemeyer or like equipment.
- b. Vertical action: Set to cut 3 to 4 inches deep.
Example: Roto-tiller, side-winder or like equipment.

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 or suppression of deep-germinating grasses- wild cane, seedling johnsongrass, quackgrass 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.

Field Cultivators (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 chisel plows. 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 or suppression of deep-germinating weeds such as nutgrass, quackgrass, johnsongrass seedlings or wild cane is desired. For control of these weeds, use a disc for at least one of the passes over the field.

Sprinkler Incorporation Pacific Northwest Region (Semi-arid areas of Eastern Washington, Eastern Oregon and Idaho only):
Surface apply ERADICANE EXTRA immediately after planting. The soil surface should be dry (at least 1/2 inch deep) and free from dew and incidental moisture. Incorporate using 1/2 to 3/4 inch of water within 36 hours following application. The application and incorporation must be done within 5 days after the last tillage operation since poor results will occur if weeds have germinated.

APPENDIX IIPROCEDURE FOR TESTING THE COMPATIBILITY OF
ERADICANE EXTRA WITH FLUID FERTILIZERS

The following procedure is suggested for determining whether ERADICANE EXTRA may be combined with a specific fluid fertilizer for spray tank application.

MATERIALS REQUIRED:

1. ERADICANE EXTRA
2. Fluid fertilizer to be used.
3. Adjuvant for fertilizer tank mix: Complex*, Sponto 168-D*, Unite*, or equivalent. The adjuvant which provides the best emulsification depends on the specific fertilizer under consideration.

*Complex, Kalo Laboratories Inc., Kansas City, Missouri;
Sponto 168-D, Witco Chemical Company, Houston, Texas;
Unite, Hopkins Agricultural Chemical Co., Madison, Wisconsin.

4. Two one-quart, wide-mouth glass jars with lid or stopper.
5. Measuring spoons (a 25 mL pipette or graduated cylinder provides more accurate measurement).
6. Measuring cup, 8 oz. (237 mL).

PROCEDURE:

1. Pour a pint (about 473 mL) of the fluid fertilizer into each of the quart jars.
2. Add adjuvant to one of the jars and mix (see rate table on reverse side).
3. Add the ERADICANE EXTRA to both jars (see rate table on reverse side).
4. Close both jars with lid or stopper 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.

NOTE 1: For some combinations, premixing wettable powders in a little water in a pail before adding them to the spray tank will improve the compatibility of the final mixtures with ERADICANE EXTRA. This technique can be tested in the small-scale jar test by premixing the wettable powder in one-eighth (1/8) cup of water prior to addition to the pint of fluid fertilizer.

RATE TABLE FOR ERADICANE EXTRA AND ADJUVANT**
WITH THE FLUID FERTILIZER

<u>Gallons of fluid fertilizer to be applied per acre</u>	<u>mL or tsp. of ERADICANE EXTRA* to be added to 1 pint of fertilizer</u>	
	<u>mL</u>	<u>tsp.</u>
10	8	1-3/5
15	5	1
20	4	4/5
25	3	2/3
30	2.5	1/2
40	2	2/5

* Based on field rate of 1 pound active ingredient 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 active ingredient in 40 gallons fertilizer per acre, add 8 mL. or 1-3/5 tsp. ERADICANE EXTRA to each jar for compatibility testing purposes).

** Two (2) milliliters or two-fifths (2/5) teaspoon of adjuvant to 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.

APPENDIX III

ERADICANE EXTRA, ERADICANE EXTRA/ATRAZINE (4L or 80W) or ERADICANE EXTRA/BLADEX (4L or 80W) or ERADICANE EXTRA/ATRAZINE/BLADEX

IMPREGNATION ON DRY BULK FERTILIZERS

CAUTION: ERADICANE EXTRA alone or in combination with other herbicides must not be impregnated on ammonium nitrate, potassium nitrate or sodium nitrate fertilizers. Such mixtures may cause explosion and fire.

All individual state regulations relating to bulk dry fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the ERADICANE EXTRA or ERADICANE EXTRA/ATRAZINE (4L or 80W) and/or BLADEX (4L or 80W) and fertilizer mixtures.

ERADICANE EXTRA alone and in combination with ATRAZINE and/or BLADEX may be impregnated on many dry bulk fertilizers (1)(2) and applied and incorporated in the soil before planting for the control of grass and broadleaf weeds in corn.

Test results have shown that ERADICANE EXTRA, ERADICANE EXTRA/ATRAZINE (4L or 80W) and/or BLADEX (4L or 80W) on many dry bulk fertilizers give weed control equal to ERADICANE EXTRA or a tank mix of ERADICANE EXTRA/ATRAZINE (4L or 80W) and/or BLADEX (4L or 80W) applied as a spray in water or liquid fertilizer. However, uniform impregnation of the pesticides on the dry fertilizer particles and uniform application in the field are necessary to assure good results.

A minimum of 200 pounds and a maximum of 700 pounds of approved ingredients (1)(2) impregnated with the appropriate amount of ERADICANE EXTRA alone or in combination with ATRAZINE (4L or 80W) and/or BLADEX (4L or 80W) must be applied per acre.

For impregnating the pesticides on dry fertilizers, use a closed rotary-drum mixer or a similar type of closed blender equipped with suitable spray equipment. The spray nozzle should be positioned inside of the mixer to provide uniform spray coverage of the tumbling fertilizer. The ERADICANE EXTRA should be sprayed uniformly onto the fertilizer using a fine spray pattern. For the ERADICANE EXTRA/ ATRAZINE or ERADICANE EXTRA/BLADEX combination product, the ATRAZINE (4L or 80W) and/or BLADEX (4L or 80W) can be added and mixed uniformly with the fertilizer prior to the ERADICANE EXTRA addition, or alternately, the ERADICANE EXTRA/ ATRAZINE (4L or 80W) and/or BLADEX (4L or 80W) can be mixed in the proposed use ratio to prepare a uniform slurry for joint spray impregnation.

The physical properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with ERADICANE EXTRA, ERADICANE EXTRA/ATRAZINE (4L or 80W), and/or BLADEX (4L or 80W) provides a satisfactory, dry mixture.

If the absorptive capacity is not adequate, use of a drying agent is required to provide dry, free-flowing mixtures.

For mixtures to be used in spinning-disc applicators, Microcel E calcium silicate powder (Manville, Filtration & Minerals) is recommended for use as a drying agent.

For mixtures to be used in pneumatic applicators, Microcel E or Agsorb 16/30 RVM-MS granular-clay (Oil-Dri Corporation) or Celatom MP-79 (Eagle-Picher Industries, Inc.) is recommended for use as the drying agent.

The drying agent should be added separately and uniformly to the prepared pesticide-fertilizer mixture, in a quantity that is sufficient to provide a suitably free-flowing mixture. Generally, less than 2% Microcel E or 5% Agsorb 16/30 RVM-MS and 5% Celatom MP-79 by weight is required.

The amount of ERADICANE EXTRA, ERADICANE EXTRA/ATRAZINE (4L or 80W) and/or BLADEX (4L or 80W) actually required in the manufacture of individual fertilizer mixtures should be determined carefully for each production operation. This is necessary to ensure that the amount of pesticides actually contained in the mixture applied to the soil represents the correct rate of use.

Bulk fertilizer impregnated with ERADICANE EXTRA, ERADICANE EXTRA/ATRAZINE (4L or 80W) and/or BLADEX (4L or 80W) should be applied immediately, not stored. It is recommended that all bulk containers be tightly covered while the product is being transported and applied to reduce chances of ERADICANE EXTRA loss via volatilization.

When application and incorporation are done in separate operations, ERADICANE EXTRA impregnated on the dry fertilizer must be incorporated on the same day as applied. Application must be made on a dry soil surface (at least 1/2 inch deep) free from dew and incidental moisture. (Refer to special instructions for suppression of Wild Cane.)

ERADICANE EXTRA Physical Data

Specific Gravity 68/68°F: 0.998 (typical)
Pounds/Gallon 68°F: 8.31 (typical)
Flashpoint: 194°F (Setaflash closed cup)
Viscosity: Sprayable down to minus 20°F

(1) APPROVED DRY FERTILIZER INGREDIENTS FOR USE WITH ERADICANE EXTRA

	<u>N</u>	<u>P</u>	<u>K</u>
Ammonium Sulfate	21	0	0
Diammonium Phosphate	18	46	0
Potassium Chloride	0	0	60
Potassium Sulfate	0	0	52
Single Super-phosphate	0	20	0
Treble Super-phosphate	0	46	0
Urea*	45	0	0
Ammonium Phosphate-Sulfate	16	20	0

*Some ureas may be phytotoxic when high rates are applied to corn. Use only urea rates known to be safe for corn application.

NOTE: K-Mag and 11-48-0 are also approved for use.

(2) APPROVED DRY FERTILIZER INGREDIENTS FOR USE WITH ERADICANE EXTRA/ATRAZINE (4L or 80W), OR ERADICANE EXTRA/BLADEX (4L or 80W) OR ERADICANE EXTRA PLUS ATRAZINE AND BLADEX

	<u>N</u>	<u>P</u>	<u>K</u>
Ammonium Sulfate	21	0	0
Diammonium Phosphate	18	46	0
Potassium Chloride	0	0	60
Potassium Sulfate	0	0	52
Urea*	45	0	0
Ammonium Phosphate-Sulfate	16	20	0

*Some ureas may be phytotoxic when high rates are applied to corn. Use only urea rates known to be safe for corn application.

NOTE: K-Mag and 11-48-0 are also approved for use.

NOTE: Do not combine ERADICANE EXTRA plus ATRAZINE (4L or 80W) or BLADEX (4L or 80W) with single super-phosphate (0-20-0) or treble superphosphate (0-46-0).

(3) Rate Chart for Impregnation of Dry Bulk Fertilizers (1)(2)
with ERADICANE EXTRA or ERADICANE EXTRA/ATRAZINE 4L or 80W

Fertilizer Rate Per Acre	ERADICANE EXTRA Rate Per Acre			ATRAZINE 4L		
	4 pts.	5-1/3 pts.	8 pts.	2 pts.	3 pts.	1-1/2
200 lbs. qts/ton	20	26-2/3	40	10	15	12
250 lbs. qts/ton	16	21-1/3	32	8	12	10
300 lbs. qts/ton	13-1/3	17-3/4	26-2/3	6-2/3	10	8-1/2
350 lbs. qts/ton	11-1/2	15-1/4	23	5-3/4	8-3/5	7-1/2
400 lbs. qts/ton	10	13-1/3	20	5	7-1/2	6-1/2
450 lbs. qts/ton	9	11-4/5	17-4/5	4-1/2	6-2/3	5-1/2
500 lbs. qts/ton	8	10-2/3	16	4	6	5-1/2
550 lbs. qts/ton	7-1/4	9-3/4	14-1/2	3-2/3	5-1/2	4-1/2
600 lbs. qts/ton	6-2/3	9	13-1/3	3-1/3	5	4-1/2
650 lbs. qts/ton	6-1/4	8-1/4	12-1/3	3-1/5	4-3/5	3-1/2
700 lbs. qts/ton	5-3/4	7-2/3	11-1/2	2-7/8	4-1/4	3-1/2

(4) Rate Chart for Impregnation of Dry Bulk Fertilizers (1)(2)
with ERADICANE EXTRA or ERADICANE EXTRA/BLADEX 4L or 80W

Fertilizer Rate Per Acre	ERADICANE EXTRA Rate Per Acre			BLADEX 4L Rate Per Acre		BLADEX 80W Rate Per Acre	
	4 pts.	5-1/3 pts.	8 pts.	3 pts.	4 pts.	2 lbs.	2-1/2 lbs.
200 lbs. 20 qts/ton	26-2/3 qts/ton	40 qts/ton	15 qts/ton	20 qts/ton	20 lbs/ton	25 lbs/ton	
250 lbs. 16 qts/ton	21-1/3 qts/ton	32 qts/ton	12 qts/ton	16 qts/ton	16 lbs/ton	20 lbs/ton	
300 lbs. 13-1/3 qts/ton	17-3/4 qts/ton	26-2/3 qts/ton	10 qts/ton	13-1/3 qts/ton	13-1/3 lbs/ton	16-2/3 lbs/ton	
350 lbs. 11-1/2 qts/ton	15-1/4 qts/ton	23 qts/ton	8-3/5 qts/ton	11-1/2 qts/ton	11-2/5 lbs/ton	14-1/3 lbs/ton	
400 lbs. 10 qts/ton	13-1/3 qts/ton	20 qts/ton	7-1/2 qts/ton	10 qts/ton	10 lbs/ton	12-1/2 lbs/ton	
450 lbs. 9 qts/ton	11-4/5 qts/ton	17-4/5 qts/ton	6-2/3 qts/ton	9 qts/ton	8-7/8 lbs/ton	11-1/5 lbs/ton	
500 lbs. 8 qts/ton	10-2/3 qts/ton	16 qts/ton	6 qts/ton	8 qts/ton	8 lbs/ton	10 lbs/ton	
550 lbs. 7-1/4 qts/ton	9-3/4 qts/ton	14-1/2 qts/ton	5-1/2 qts/ton	7-1/4 qts/ton	7-1/4 lbs/ton	9-1/5 lbs/ton	
600 lbs. 6-2/3 qts/ton	9 qts/ton	13-1/3 qts/ton	5 qts/ton	6-2/3 qts/ton	6-2/3 lbs/ton	8-1/3 lbs/ton	
650 lbs. 6-1/4 qts/ton	8-1/4 qts/ton	12-1/3 qts/ton	4-3/5 qts/ton	6-1/4 qts/ton	6-1/5 lbs/ton	7-2/3 lbs/ton	
700 lbs. 5-3/4 qts/ton	7-2/3 qts/ton	11-1/2 qts/ton	4-1/4 qts/ton	5-3/4 qts/ton	5-3/4 lbs/ton	7-1/5 lbs/ton	

(5) RATE CHART FOR THE IMPREGNATION OF DRY BULK FERTILIZERS WITH ERADICANE EXTRA or ERADICANE EXTRA PLUS ATRAZINE (80W or 4L) PLUS BLADEX (80W or 4L)

FERTILIZER RATE PER ACRE	ERADICANE EXTRA Rate/Acre			ATRAZINE 80W Rate/Acre		ATRAZINE 4L Rate/Acre		BLADEX 80W Rate/Acre		BLADEX 4L Rate/Acre	
	4 pts per acre	5-1/3 pts per acre	8 pts per acre	3/4 lb per acre	1-1/4 lbs per acre	1 pt per acre	2 pts per acre	1-1/4 lbs per acre	2-1/2 lbs per acre	1 qt per acre	2 qts. per acre
200 lbs	20 qts/ton	26-2/3 qts/ton	40 qts/ton	7-1/2 lbs/ton	12-1/2 lbs/ton	5 qts/ton	10 qts/ton	12-1/2 lbs/ton	25 lbs/ton	10 qts/ton	20 qts/ton
250 lbs	16 qts/ton	21-1/3 qts/ton	32 qts/ton	6 lbs/ton	10 lbs/ton	4 qts/ton	8 qts/ton	10 lbs/ton	20 lbs/ton	8 qts/ton	16 qts/ton
300 lbs	13-1/3 qts/ton	17-3/4 qts/ton	26-2/3 qts/ton	5 lbs/ton	8-1/3 lbs/ton	3-1/3 qts/ton	6-3/5 qts/ton	8-1/3 lbs/ton	16-2/3 lbs/ton	6-3/5 qts/ton	13-1/3 qts/ton
350 lbs	11-1/2 qts/ton	15-1/4 qts/ton	23 qts/ton	4-1/3 lbs/ton	7-1/8 lbs/ton	2-7/8 qts/ton	5-4/5 qts/ton	7-1/8 lbs/ton	14-1/4 lbs/ton	5-4/5 qts/ton	11-2/5 qts/ton
400 lbs	10 qts/ton	13-1/3 qts/ton	20 qts/ton	3-3/4 lbs/ton	6-1/4 lbs/ton	2-1/2 qts/ton	5 qts/ton	6-1/4 lbs/ton	12-1/2 lbs/ton	5 qts/ton	10 qts/ton
450 lbs	9 qts/ton	11-4/5 qts/ton	17-4/5 qts/ton	3-1/3 lbs/ton	5-1/2 lbs/ton	2-1/4 qts/ton	4-2/5 qts/ton	5-1/2 lbs/ton	11-1/8 lbs/ton	4-2/5 qts/ton	8-7/8 qts/ton
500 lbs	8 qts/ton	10-2/3 qts/ton	16 qts/ton	3 lbs/ton	5 lbs/ton	2 qts/ton	4 qts/ton	5 lbs/ton	10 lbs/ton	4 qts/ton	8 qts/ton
550 lbs	7-1/4 qts/ton	9-3/4 qts/ton	14-1/2 qts/ton	2-3/4 lbs/ton	4-2/3 lbs/ton	1-7/8 qts/ton	3-2/3 qts/ton	4-2/3 lbs/ton	9-1/8 lbs/ton	3-2/3 qts/ton	7-1/3 qts/ton
600 lbs	6-2/3 qts/ton	9 qts/ton	13-1/3 qts/ton	2-1/2 lbs/ton	4-1/5 lbs/ton	1-2/3 qts/ton	3-1/3 qts/ton	4-1/5 lbs/ton	8-1/3 lbs/ton	3-1/3 qts/ton	6-2/3 qts/ton
650 lbs	6-1/4 qts/ton	8-1/4 qts/ton	12-1/3 qts/ton	2-1/3 lbs/ton	3-7/8 lbs/ton	1-3/5 qts/ton	3-1/8 qts/ton	3-7/8 lbs/ton	7-3/4 lbs/ton	3-1/8 qts/ton	6-1/5 qts/ton
700 lbs	5-3/4 qts/ton	7-2/3 qts/ton	11-1/2 qts/ton	2-1/5 lbs/ton	3-2/3 lbs/ton	1-1/2 qts/ton	2-7/8 qts/ton	3-2/3 lbs/ton	7-1/5 lbs/ton	2-7/8 qts/ton	5-3/4 qts/ton

at temperatures as low as minus 50°F.

PESTICIDE DISPOSAL: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL:

METAL - Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

PLASTIC - Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned stay out of smoke.

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.

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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.