

Riverside Trademark®

PROPANIL 4E

For post-emergence control of barnyardgrass and other weeds in rice

ACTIVE INGREDIENT	
3',4'-Dichloropropionanilide*.....	45.0%
INERT INGREDIENTS.....	55.0%
	Total 100.0%

\*Contains 4 pounds propanil per gallon.  
This product contains the toxic inert ingredient isophorone.

**ACCEPTED**

SEP - 7 1990

EPA Reg. No. 9779-272

This is Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the registration of this pesticide.

STOP-READ LABEL BEFORE USING.

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Induce vomiting by immediately giving two glasses of water to drink and touch back of throat with finger. Never give anything by mouth to an unconscious person.

IF ON SKIN: Wash affected area with soap and water.

IF IN EYES: Flush with large amounts of water for at least 15 minutes. Consult a physician if irritation persists.

See additional PRECAUTIONARY STATEMENTS on side panel.

EPA Reg. No. 9779-272

EPA Est. No. 9779-

Manufactured For  
 RIVERSIDE/TERRA CORPORATION  
 Terra Centre, 600 Fourth Street, Sioux City, Iowa 51101  
 Riverside Serves Agriculture. Agriculture Serves Everyone.

NET CONTENTS  
 \_\_\_\_\_ LBS.

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PRECAUTIONARY STATEMENTS  
CAUTION  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Avoid breathing spray mist. Harmful if swallowed or absorbed through skin. Do not get in eyes or on skin or clothing. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water except as specified on this label. Do not contaminate water when disposing of equipment washwaters.

Water drained from treated rice fields must not be used to irrigate other crops or released within 1/2 mile upstream of a potable water intake in flowing water (i.e., river, stream, etc.) or within 1/2 mile of a potable water intake in a standing body of water such as a lake, pond or reservoir.

Do not drain water from treated fields into areas where catfish farming is practiced.

Do not apply to fields where commercial crayfish farming is practiced and do not drain water from treated fields into areas where crayfish farming is practiced.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

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DIRECTIONS FOR USE

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.

RE-ENTRY STATEMENT

Do not enter treated areas without protective clothing until sprays have dried. Protective clothing means, at least, a hat or other suitable head covering, a long-sleeved shirt and long-legged trousers or a coverall type garment (all of closely woven fabric covering the body, including the arms and legs), shoes and socks. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

**BEST AVAILABLE COPY**

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STORAGE AND DISPOSAL  
DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE AND DISPOSAL

STORAGE

Store in a dry location away from children, animals, foods, feeds, seeds, or other agricultural chemicals. Do not store at temperatures below 32°F. Handle in accordance with information given under Precautionary Statements. In the event of spillage or leakage, soak up material with absorbent clay, sand, sawdust, or other absorbent material. Scrape up and dispose of in accordance with information given under DISPOSAL. Repackage and relabel useable product in a sound container. In case of fire or other emergency, report at once by toll-free telephone to 800-424-9300.

DISPOSAL

**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:** Metal Containers - 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.

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WEEDS CONTROLLED

Barnyardgrass (Watergrass) Echinochloa crusgalli or Echinochloa colonum)	Mexican Weed Cyperonia palustris
Brachiaria Brachiaria spp.	Paragrass Panicum purpurascens
Crabgrass, large Digitaria sanguinalis	Pigweed, redroot Amaranthus retroflexus
Croton, woolly Croton capitatus	Redweed Melochia corchorifolia
Curly Indigo Aeschynomene virginica	Sour Dock Rumex crispus
Foxtail Setaria spp.	Spearhead Rhynchospora corniculata
Goosegrass Eleusine indica	Tall Indigo or Coffee Bean Sesbania exaltata
Gulf cockspur Echinochloa crus-pavonis	Texas Millet Panicum texarum
Hoorahgrass Fimbristylis miliaceae	Wiregrass Eleocharis spp.

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## WEEDS NOT CONTROLLED

Arrowhead  
Sagittaria spp.

Bermudagrass  
Cynodon dactylon

Cattail  
Typha latifolia

Ducksalad  
Heteranthera spp.

Johnsongrass  
Sorghum halepense

Nutgrass  
Cyperus spp.

Red Rice  
Oryza sativa

Sprangletop  
Leptochloa spp.

## GENERAL INFORMATION

PROPANIL 4E is a post-emergence herbicide for the control of many grasses and broadleaf weeds in rice fields only. It may be applied by either ground or aerial spray equipment, after dilution and thorough agitation with water. PROPANIL 4E is not a hormone-type herbicide, but kills susceptible plants by direct contact action. For this reason, thorough spray coverage of weeds to be killed is necessary for best results.

PROPANIL 4E should be applied when weeds and grasses are small. (See Directions for Use). Use only on fields which have been drained of flood water. Rice fields to be treated should be inspected frequently before the application of PROPANIL 4E to insure that barnyard or watergrass is at the proper stage of growth (1 to 3 leaf stage with an occasional 4 leaf plant).

**ATTENTION:** Never apply PROPANIL 4E except as recommended on this label because use in any other way may result in damage or injury to persons, animals, or crops, or other unintended consequences.

TO AVOID EXCESSIVE RESIDUES AT HARVEST, DO NOT APPLY AFTER THE END OF TILLERING FOR THE RICE VARIETY BEING TREATED. DO NOT APPLY MORE THAN A MAXIMUM OF SIX POUNDS ACTIVE INGREDIENT PER ACRE IN A SINGLE APPLICATION OR EXCEED EIGHT POUNDS ACTIVE INGREDIENT PER ACRE TOTAL DOSAGE PER SEASON.

DO NOT APPLY PROPANIL 4E WITHIN FOURTEEN DAYS before or after insecticide applications because serious damage to rice may occur.

Do not apply to any crops other than rice.

Before applying PROPANIL 4E, make sure the spray equipment is properly calibrated to avoid over- or under-treatment.

Do not apply PROPANIL 4E under wind conditions which will allow drift to adjacent susceptible crops such as beans, soybeans, cotton, safflower, cucurbits, vegetables, orchards, and other sensitive crops. Wind velocity greater than 5 miles per hour will often cause applications to be streaked and give less than maximum herbicidal control.

Keep this container closed when not in use. Do not reuse for other purposes as its toxic contents cannot be entirely removed.

**BEST**

## RICE

Rice fields should be well prepared and free of large clods to obtain uniform germination of grasses and weeds, and insure uniform flood levels. If necessary, fields may be flushed prior to treatment to produce uniform grass germination. If fields are flushed prior to treatment, flush in sufficient time so that grass and rice are growing vigorously at time of treatment. Water should be drained from fields before spraying so that grasses and weeds are fully exposed to the spray.

PROPANIL 4E acts only on grasses and weeds which have already germinated. (Maximum action usually is not apparent until 3 to 5 days after application.) To prevent more weeds from germinating after treatment, fields should be flooded within 24 hours after spraying, or as soon as possible after 24 hours. Flooding after spraying will improve the grass control after PROPANIL 4E treatment. In cases where flooding of the field would not be complete within seven days or less after application of PROPANIL 4E, it is best to treat a portion of the field, flood that treated portion, and then treat the remainder. This will help prevent reinfestation of weeds and grasses. Higher rates (4-6 quarts) may be necessary on the remainder since the grass will be more mature.

If the rice is too small to maintain a flood on the field, treatment should be delayed until rice is large enough. The grass may then be large enough to require 4-6 quarts of PROPANIL 4E. Avoid treatment if rain threatens within 6-8 hours or if high winds may cause uneven application or drift.

In case of unseasonably cool weather, higher rates (4-6 quarts/acre) of PROPANIL 4E may be necessary. The number of leaves of barnyard or watergrass determine the time and amount of PROPANIL 4E to spray, regardless of the size of the rice.

The temperature a few days before and after applying PROPANIL 4E herbicide has an important bearing on the weed killing activity. The activity increases as daily maximum temperatures increase above 75°F and decreases as the daily maximum temperatures decline below 75°F. Do not apply PROPANIL 4E herbicide when maximum temperatures have been or are expected to stay below 65°F or to go above 100°F. Low temperature at time of application is not so important as long as it warms up later during the day.

THE GROWER SHOULD INSPECT FIELDS FREQUENTLY TO DETERMINE PROPER TIME OF APPLICATION. The ideal application time is when most barnyardgrass has one to three leaves, with only an occasional plant having four leaves. During drought conditions grasses may reach the three leaf stage while still quite short or stunted, so special attention to stage of growth is necessary in these situations to avoid grasses becoming too mature for best results.

Apply 3 quarts of PROPANIL 4E per acre when most grass has reached the one to three leaf stage. Use 4 to 6 quarts of PROPANIL 4E per acre if grasses are larger, with most in the four to six leaf stage. Mix PROPANIL 4E thoroughly with water for spraying, using vigorous mechanical agitation. For AERIAL APPLICATION dilute the proper amount of PROPANIL 4E with 10 to 12 gallons of water per acre. For GROUND EQUIPMENT dilute the proper amount of PROPANIL 4E with 15 to 25 gallons of water per acre. Lesser amounts of water often give inadequate coverage and may cause poor results.

If fields cannot be completely drained so that all of the grass is exposed, a higher dosage of PROPANIL 4E (4-6 quarts/acre) must be used.

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NOTICE - When PROPANIL 4E is applied, especially after the fourth leaf stage of growth of the rice, under some conditions, visible leaf injury on rice may result. However, the rice plants quickly outgrow such injury when caused by the later applications.

USE IN CALIFORNIA ONLY - Where rice fields are not completely drained.

To control watergrass, apply PROPANIL 4E 30 to 45 days after planting, before rice is fully tillered, when watergrass extends 6 to 8 inches above water surface. If rice has a deep flood, water level may be lowered to 3-4 inches over highest part of field to expose 6-8 inches of watergrass. (When lowering water level, do so slowly to avoid pulling down rice plants.) Use 4 quarts per acre if most grass has developed 3-5 leaves, use 5 quarts if most grass has 5-6 leaves, and use 6 quarts per acre if most grass has 7 or more leaves. Apply in no less than 10-12 gallons of water, using a medium-fine spray. If higher water level is desired after treating, reflooding may be started 12 hours after treatment.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller and Buyer assumes the risk of any such use.

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