

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

OCT 31 2006

Luz G. Chan  
Drexel Chemical Company  
1700 Channel Av.  
P.O. Box 13327  
Memphis, TN 38113-0327

Dear Ms. Chan:

Subject: Label Amendment  
Propanil 4L  
EPA Reg. No. 19713-582  
Submission dated June 30, 2006

The labeling, referred to above, submitted in connection with the application under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, provided that you make the following changes:

2. Under "Personal Protective Equipment";

Replace the requirements with the following:

"a. Mixers, loaders, applicators, and other handlers must wear the following, except when removing an unrinsed probe:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, and chemical-resistant apron when mixing/loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.
- Shoes plus socks.
- In addition, handlers must wear chemical resistant footwear when clean up spills or equipment.

b. Mixers, loaders, and other handlers must wear the following when removing an unrinsed probe:

- Coverall over long-sleeved shirt and long pants.
- Chemical resistant gloves.
- "Chemical resistant footwear plus socks.
- Protective eyewear if the system operates under pressure, and chemical resistant apron.
- Chemical resistant apron.

See engineering controls for additional requirements."

- 2. Under "Directions for Use";

Add "Do not apply when weather conditions favor drift from target area."

- 3. Under "Restrictions and Precautions";

Replace "Water drained from the treated rice fields must not be used to irrigate other crops or released with one half mile upstream of a potable water intake in flowing water (e.g., river, stream, etc.) or within one half mile of a potable water intake in a standing body of water, such as a lake, pond or reservoir." with

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

- 4. Under "Warranty-Conditions of Sale";

Add "To the fullest extent permitted by law," before "In no case . . ." and "The foregoing is a condition . . ."

The amended label supersedes all previously accepted labels. A stamped copy of the revised label is enclosed for your records. Please submit one copy of your final printed label before you release the product for shipment.

Sincerely yours,



Jim Tompkins  
Product Manager (25)  
Herbicide Branch  
Registration Division (7505P)

Enclosure

CONCURRENCES

SYMBOL >	7505P	7505P						
SURNAME >	Bien	Tompkins						
DATE >	10-30-06							

ACCEPTED 3/5  
with COMMENTS  
in EPA Letter Dated

Drexel

OCT 31 2005

Under the Federal Insecticide,  
Fungicide and Rodenticide Act  
as amended for the pesticide  
registered under EPA Reg. No.  
19713-582

# Propanil 4L

Herbicide

For Postemergence Control of Broadleaved and Grass Weeds in Rice Fields

**ACTIVE INGREDIENTS:**

Propanil .....	41.20%
Carbaryl .....	0.07%

<b>OTHER INGREDIENTS:</b> .....	<u>58.73%</u>
<b>TOTAL:</b> .....	100.00%

This product contains 4 pounds of propanil active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION

See **FIRST AID** Below  
**SHAKE WELL BEFORE USING**

EPA Reg. No. 19713-582

EPA Est. No. 19713-

Net Contents: \_\_\_\_\_

### FIRST AID

**IF SWALLOWED:**

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

**IF IN EYES:**

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

**IF ON SKIN OR CLOTHING:**

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

**IF INHALED:**

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

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

**AGRICULTURAL CHEMICAL**

Do not ship or store with food, feeds, drugs, or clothing.

FOR CHEMICAL SPILL, LEAK, FIRE, OR EXPOSURE CALL TOLL FREE:  
1-800-424-9300.

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

**CAUTION:** Harmful if swallowed. Causes moderate eye irritation. May cause skin irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. This product may cause an allergic skin reaction. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

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### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are any waterproof material listed below. For more information, follow instructions in Supplement Three of PR Notice 93-7. If you want more options, follow the instructions for category B on an EPA chemical-resistance category selection chart.

**Mixers, loaders, applicators, and other handlers must wear:** Long-sleeved shirt and long pants, chemical-resistant gloves such as Barrier laminate or Butyl rubber, shoes plus socks, and chemical-resistant apron when mixing/loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

### ENGINEERING CONTROLS

**Mixers and loaders must either:**

1. Use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for dermal protection of agricultural pesticides [40 CFR 170.240(d)(4)], **OR,**
2. Use the probe system described below.

#### Probe System

Specific requirements for use of the probe closed mixing/loading system:

- Remove plug from bung of drum containing this product only when drum is sitting on the ground or on a secure level platform, with the bung end of the drum pointed up.
- Do not pour this product from its drum.
- Transfer product from the drum to the mixing tank by use of a suction hose connected at one end to the suction pump on the mixing tank and connected at the other end to a probe (dip tube) that is inserted through the bung opening into the drum.
- Do not handle the probe or bung in a manner that allows dripping or splattering of the product onto yourself or any other person.
- Do not touch the portion of the probe that has been in contact with this product until after the probe has been triple rinsed with water.
- If all of the product is removed from the drum, then triple rinse the probe while it remains inside the drum.

#### Unrinsed Probes

- If an unrinsed probe must be removed from the drum, then use an anti-drip flange, and immediately transfer the probe into a container of rinse water. The anti-drip flange must be designed to remove excess propanil product from the probe as it is extracted from the drum.
- Take the following steps if the probe must be disconnected from the suction hose before both the probe and the hose have been triple rinsed:
  - equip the probe end of the hose with a shut-off valve,
  - install a dry break coupling between the valve and the probe,
  - close the shut-off valve before disconnecting the probe.

#### All Transfer Systems

In addition, mixers and loaders using all systems must:  
• Wear the personal protective equipment required in the PPE section of this labeling for mixers and loaders  
• Wear protective eyewear, if the system operates under pressure, and  
• When using a system that meets the requirements in the WPS as a closed system or using a probe system when the probe is not removed, chemical-resistant footwear must be provided, be immediately available, and be used in an emergency, such as a broken package, spill, or equipment breakdown.

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**ENGINEERING CONTROLS (Con't)**

All systems must be capable of removing the pesticide from the shipping container and transferring it into mixing tanks and/or application equipment. At any disconnect point, the system must be equipped with a dry disconnect or dry couple shut-off device that is warranted by the manufacturer to minimize drippage.

Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

**USE SAFETY RECOMMENDATIONS**

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water intended for irrigation or domestic purposes.

This product may contaminate water through runoff following rainfall events and by seepage through levees. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Levees should be constructed with adequate time prior to chemical application so that they are compacted to reduce seepage and to hold a 3 to 6 inch flood (2001 Mississippi Rice Growers Guide). Other guidance is located at <http://agronomy.ucdavis.edu/uccerice/water/seep.htm> and from the document Closed Rice Water Management Systems: from the National Resource Conservation Service of the USDA. The university of Arkansas Rice Production Book ([http://www.uaex.edu/other\\_areas/publications/html](http://www.uaex.edu/other_areas/publications/html)) also provides information concerning levee production.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical prior to flooding may result in shallow groundwater contamination due to cracks in the subsoil of the Rice paddy.

**PHYSICAL AND CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

**GENERAL INFORMATION**

Several important factors should be taken into account to achieve a high efficiency of selective weed control with this product. These include uniform application, growth stage and weather conditions. To assure uniform application, shake or roll container prior to opening and mix the prescribed amount of product with a sufficient volume of carrier to provide thorough coverage of target area.

Growth stage of weeds is very important. Best results for selective weed control are obtained when most grasses have reached the 1 to 3 leaf stage. Proper field preparation is essential to ascertain a relatively clod free and level surface and to obtain uniform flood levels and growth. Fields may be flushed prior to treatment to produce uniform and vigorous grass germination and growth. Drain water from fields prior to applying this product. Higher rates are recommended to control larger grasses or exposed weeds when rice fields are not completely drained. Inspect rice fields regularly to select the correct application time.

**WEEDS CONTROLLED**

Barnyardgrass (watergrass)	Gulf cockspur
Brachiaria	Mexicanweed
Coffeeweed	Millet (Texas)
Crabgrass	Paragrass
Croton	Pigweed
Curly indigo	Sourdock
Foxtail	Spearhead
Goosegrass	Wiregrass

Note: This product will not control Arrowhead, Bermudagrass, Cattail, Ducksalad, Johnsongrass, Nutgrass, Red rice and Sprangletop.

**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 in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forest, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 24 hours.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, chemical-resistant gloves such as or made out of any waterproof material, chemical-resistant footwear plus socks, and protective eyewear.

**SPRAY DRIFT MANAGEMENT:**

Avoiding spray drift at the application site is the responsibility of the applicator and the grower. The interactions of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Apply only when the wind speed is less than or equal to 10 mph at the application site.

Apply as a medium or coarser spray (ASAE standard 572).

**Additional requirements for ground applications**

Apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

**Additional requirements for aerial applications**

Do not apply by air if drift can occur to sensitive nontarget crops or plants that are within 100 feet of the application site.

Do not release spray at a height greater than 10 feet above the ground or crop canopy.

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

Do not make any type of application into temperature inversions.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

**WHERE TO USE**

This product is used for postemergence control of broadleaf and grass weeds in Rice fields.

**WEATHER CONDITIONS**

**Temperature:** Temperatures at and before application affect product activity in controlling target weeds. Applications should be made when daily maximum temperatures are between 75°F and 100°F. Control decreases with temperatures below 75°F and increases with temperatures about 75°F.

**Application Timing:** This product normally requires 8 hours of DIRECT sunlight after application for absorption into target weeds, however, many atmospheric and environmental conditions can affect absorption into the target weeds. It is highly recommended that application of this product be planned so that the applied product remains in contact with the leaf surfaces for at least 48 hours prior to rainfall or flooding. Historically, morning applications of Propanil products, including this product, have produced better results in weed control.

**Relative Humidity:** This product is a contact herbicide, therefore, herbicidal activity is affected by humidity. High humidity and dew aid in weed control by allowing the product to remain in solution longer on the leaf surface. Low humidity decreases plant activity and thus reduces product absorption. During periods of very low humidity, higher spray volume, 12 to 15 gallons per acre, should be used when applied aerially.

**Soil Moisture:** Under dry conditions, grass and broadleaf weeds are less susceptible to control. Higher rates of this product, 4 to 6 quarts per acre, should be used to achieve control.

**Wind:** Although this product is less susceptible to drift than solvent-based Propanil products, application should be avoided if wind velocity is high enough to cause drift of the application spray off the target site or irregular spray patterns.

**ADJUVANTS AND APPLICATION AIDS**

When this product is used alone (not in combination with any other postemergent Rice herbicide), a low viscosity crop oil concentrate or surfactant may be used to improve wetting of foliage and increase weed control. Use of a crop oil concentrate is recommended when application is made during cool weather conditions or unstable weather conditions that may produce rain. Under adverse weather conditions, the addition of a crop oil concentrate when tank mixing this product and other rice herbicides for application should be considered. Consult product labels for adjuvant recommendations. The use of a suitable crop oil concentrate or surfactant does not significantly increase injury to Rice (leafy burn).

Consult Extension Service for detailed application advice.

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**PLANT BACK INTERVAL**

Do not plant or transplant crops in the treated area for at least 60 days following an application of this product.

**RECOMMENDED BROADCAST RATE**

Apply 3 quarts of this product per acre when most grasses have reached the 1 to 3 leaf stage. Use 4 to 6 quarts of this product per acre when the grasses are large (4 to 6 leaf stage) or when unseasonably cool weather conditions prevail, grass and broadleaf weeds are stressed due to dry conditions, or in cases where Rice fields have not been drained completely and where weeds are large enough.

Barnyardgrass may be controlled up to 30 to 45 days after planting, before Rice plants have reached the fully tillered growth stage.

For aerial applications, use approximately 10 gallons, and for surface (ground) applications 20 to 30 gallons of carrier per acre at high enough pressure. Agitate tank mixes thoroughly and continuously. Avoid over and under application.

**NOTE:** This product applied to Rice after the 4 leaf stage may cause visible injury under some climatic conditions. Rice plants usually outgrow such injury.

**USE RESTRICTIONS AND PRECAUTIONS**

**DO NOT** apply more than 6 lbs. active ingredient (6 quarts of this product) per acre per application. Do not apply more than 8 lbs. active ingredient (8 quarts of this product) per acre per season.

Application to fields where catfish farming is practiced and draining water from fields into areas where catfish farming is practiced is prohibited.

Water drained from treated Rice fields must not be used to irrigate other crops or be released within one-half mile of a potable water intake in flowing water (i.e., river, stream, etc.) or within one-half mile of a potable water intake in a standing body of water (i.e., lake, pond, or reservoir).

- **DO NOT** apply within 14 days before or after carbamate or organophosphorus insecticide applications.
- **DO NOT** apply this product (directly or indirectly) on wild rice (*Zizania* spp).
- **DO NOT** graze treated fields of feed treated forage within 80 days of the last application.
- **DO NOT** apply this product in a green house.
- **DO NOT** apply within 60 days of harvest.
- **DO NOT** rotate to crops other than Rice for 60 days following application.
- **DO NOT** retreat with Propanil within 7 days of last application to Rice.
- **DO NOT** discharge water from treated Rice paddies from 30 days following application.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply this product (directly or indirectly) to any crop except Rice.
- **DO NOT** apply when wind conditions will allow drift to adjacent, susceptible crops such as Beans, Soybeans, Cotton, Safflower, Cucurbits, Vegetables, Orchards (such as Almonds, Plums, and Grapes) and other sensitive crops.

**IN CALIFORNIA:** Use this product only where Rice fields are completely drained or a minimal amount of water remains. If higher water level is desired, reflood field after 12 hours and before 7 days after treatment. This will discourage new weed infestations. Do not apply this product within 14 days before or after insecticide applications. Serious injury to Rice may occur.

**EMERGENCY RELEASE PROVISION**

Water holding (discharge) intervals for flood water following propanil application in all States:

For delayed flood (water-seeded) Rice grown south of Interstate Highway-10 from the Texas/Louisiana border to Houston and east of State Highway 35 from Houston to Port Lavaca - Flood water must be held for 10 days after application, unless excessive rainfall completely submerges the Rice crop and forces premature release. For Texas Rice grown in areas North or West of these boundaries, the water holding interval will be 7 days.

For delayed flood (water-seeded) Rice in Southern Louisiana south of Highway 14 - Flood water must be held for 15 days after propanil application unless excessive rainfall completely submerges the Rice crop and forces premature release. Delayed flood (water-seeded) Rice in Louisiana, North of the Highway 14 boundary, is subject to the 7-day water holding interval provisions.

For permanent flood (water-seeded) Rice in California and all other parts of the US not mentioned above - Flood water must be held for 7 days after application, unless excessive rainfall completely submerges the Rice crop and forces premature release.

**TANK MIXTURES**

This product can be tank mixed with any herbicide(s) registered for use on Rice to increase the weed control spectrum. When tank mixing, observe all restrictions and limitations specified on the label of each product, always follow the most restrictive labeling.

**This Product plus \*Fa. - Early Postemergence (Except CA)**

For a broader spectrum of postemergence grass and broadleaf weed control in Rice, tank mix this product with Facet 50WP (or equivalent Facet 75DF). When this product and Facet tank mix is to be applied to Rice fields during the early stages of Rice growth (shortly after the first true leaf of the Rice has developed), where longer Facet residual activity is needed and grass weeds are in the 1 to 4 leaf stage, apply 3 to 4 quarts of this product tank mixed with 0.75 pound of Facet 50WP (or 0.5 pound of Facet 75DF) per acre.

When this product and Facet tank mix is to be applied to larger Rice that can soon tolerate a permanent flood (long quinclorac residual control not needed) yet prior to 80 days before harvest, apply as conditions warrant the following rates:

Grass Stage <sup>1</sup>	Rate of This Product (quarts)	Rate of Facet 50WP (pounds)
1 to 3 leaf	2.5	0.5
4 to 5 leaf	4.0	0.5
Larger tillering	4.0 to 5.0	0.75

<sup>1</sup>This tank mix combination works best when the grass weeds are in the 2 to 3 leaf stage and are actively growing. Use on Larger tillering grasses is a rescue treatment and less likely to achieve total control.

When tank mixing this product and Facet, 2 pints of crop oil concentrate should be added. Follow all restrictions and water management instructions of this product and Facet.

\*Facet is not registered for use on Rice in California; therefore, this tank mix cannot be used in California.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage and disposal.

**PESTICIDE STORAGE:** Do not store this product near fertilizers, seeds, insecticides, or fungicides. Containers should not be stacked more than 3 containers high. Store at temperatures above 32°F. If product is allowed to freeze, warm to 50°F and agitate before using. Reclose all partially used containers by thoroughly tightening bungs. Damaged or leaking containers which contain product that cannot be used immediately should be transferred to suitable sound containers and properly marked. Absorb any spill with a suitable clay absorbent and dispose of as indicated under "PESTICIDE DISPOSAL" below. For safety and prevention of unauthorized use, all pesticides should be stored in locked facilities.

To prevent accidental misuse, different pesticides should be stored in separate areas with enough distance between to provide clear identification.

Opened, partially used pesticides should be stored in original containers when possible. When transfer to another container is necessary because of leakage or damage, carefully mark and identify contents of the new container.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**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.

**PLASTIC Containers:** Triple rinse (or equivalent), adding rinsate to spray tank. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

**WARRANTY—CONDITIONS OF SALE**

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

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

Facet is a registered trademark of BASF.



Manufactured By:  
**Drexel Chemical Company**

P.O. BOX 13327, MEMPHIS, TN 38113 0327

**SINCE 1972**