

71085-9

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Judy Smith
RiceCo, LLC
5100 Poplar Ave., Suite 2428
Memphis, TN 38137

OCT 31 2008

Subject: Label Amendment – Add tank mix use on Clearfield rice and amend RED texts
Duet Herbicide
EPA Reg. No. 71085-9
Application dated September 24, 2008
Resubmission dated October 27, 2008

Dear Ms. Smith:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

Amended labeling will supercede all previously accepted ones. A stamped copy of labeling is enclosed for your records.

Submit one (1) copy of final printed labeling before you release the product for shipment.

Sincerely,

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



DUET®

Herbicide

For Postemergence Control of Broadleaf, Grass, and Sedge Weeds in Rice Fields

ACCEPTED

OCT 31 2008

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 71085-9

Active Ingredients:

Propanil: 3', 4' - Dichloropropionanilide.....	41.20%
Bensulfuron Methyl: Methyl 2-[[[(4, 6-dimethoxypyrimidin-2-yl) amino]carbonyl]amino]sulfonyl]methyl]benzoate	0.32%
Inert Ingredients:	58.48%
TOTAL	100.00%

This product contains 4 lbs. of propanil and 0.031 lb. of bensulfuron methyl per gallon of formulated product.

EPA Registration No. 71085-9

EPA Establishment No. 62171-MS-1; 62171-MS-3

KEEP OUT OF REACH OF CHILDREN

*Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)*

CAUTION	
FIRST AID	
If Swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have the person sip a glass of water, if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on Skin or Clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If in Eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with clean water for 15-20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • 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 further treatment advice.

AGRICULTURAL CHEMICAL
DO NOT SHIP OR STORE WITH FOOD, FEEDS, DRUGS, OR CLOTHING.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL
1-800-F-A-S-T-M-E-D (327-8633)
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call
GLOBAL LOGISTICS @ (504) 430-3140 OR (727) 374-5705.
Have the product container or label with you when calling a poison control center or
doctor, or going for treatment.

MANUFACTURED FOR:
RiceCo LLC
Memphis, TN 38137

NET CONTENTS: 30 GALS.

PRECAUTIONARY STATEMENTS
HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are 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 A on an EPA material category selection chart.

[This section is for formulations NOT packaged with Built-in Probes]

Mixers, loaders, ground applicators, and handlers cleaning up spills or equipment, or otherwise exposed to the concentrate and handlers removing an unrinsed probe must wear the following:

- Coveralls over long-sleeved shirt and long pants,
- Chemical-resistant gloves made of any waterproof materials,
- Chemical-resistant footwear plus socks,
- Protective eyewear, if the system operates under pressure, and
- Chemical-resistant apron when mixing and loading.

Pilots and handlers removing a triple-rinsed probe must wear:

- Long-sleeved shirt,
- Long pants, and
- Shoes and socks.

See Engineering Controls for additional requirements.

[This section is for formulations packaged with built-in probes]

Some materials that are chemical-resistant to this product are 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 A on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators and other handlers must wear the following:

- Long-sleeved shirt,

- Long pants
- Shoes plus socks
- Chemical-resistant gloves and chemical-resistant apron when mixing/loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

See Engineering Controls for additional requirements.

USER SAFETY 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.

[The following Engineering Controls will be used if product packaged with built in probe]

ENGINEERING CONTROLS

Mixers and loaders must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)] for dermal protection and 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
- Chemical-resistant footwear and coveralls must be provided and be immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown.

[The following Engineering Controls will be used if product packaged without built in probe.]

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 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.

UN-RINSED PROBES

- ✓ If an un-rinsed 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 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:
 - (1) Equip the probe end of the hose with a shut off valve,
 - (2) Install a dry break coupling between the valve and the probe,
 - (3) Close the shut-off valve before disconnecting the probe.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- User should remove clothing/PPE immediately if pesticide gets inside.
- 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.

PPE FOR 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.

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.

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

Enclosed Cabs for Aerial Applicators: 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)].

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. For terrestrial uses, do not apply directly to water, 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 washwaters 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. Do not apply when weather conditions favor drift from areas to be treated.

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.

This product may contaminate water through runoff following rainfall events and by seepage through levees. This product has a high potential for runoff. 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 3-6 inch flood.

DIRECTIONS FOR USE

It is a violation of Federal law to use this production 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, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, 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 and about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard 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
- Protective eyewear.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Open dumping is prohibited. Do not store this product near fertilizers, seeds, insecticides, or fungicides. Containers should not be stacked more than 3 containers high. Reclose all partially used containers by thoroughly tightening screw cap. Damaged or leaking containers that contain product that cannot be used immediately should be transferred to suitable sound containers and properly marked. Any spilled material should be thoroughly absorbed with a suitable absorbent, swept up and transferred to a new or waste container for disposal as indicated under "Pesticide Disposal".

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. Keep containers closed when not in use.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray, mixture, or rinsate is a violation of Federal law. Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office for guidance.

CONTAINER HANDLING:

Nonrefillable Container: Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying.

Nonrefillable container 5 gallons to bulk: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

WHERE TO USE

RiceCo's DUET® is used for postemergence control of broadleaf, grass, and sedge weeds in RICE fields.

DUET can be used on **CLEARFIELD®** rice in combination with labeled rates and timings of **Newpath®** for postemergence control of problematic weeds (coffeebean, indigo, morningglory, Eclipta, sicklepod*, pigweed, smartweed, and yellow nutsedge).

WEEDS CONTROLLED

Annual arrowhead spp.	<i>Sagittaria</i> spp.
Barnyardgrass (watergrass)	<i>Echinochloa crus-galli</i>
Blunt spikerush	<i>Eleocharis obtuse</i>
Brachiaria (signalgrass)	<i>Brachiaria platyphylla</i>
Cocklebur	<i>Xanthium</i> spp.
Coffeeweed	<i>Sesbania herbacea</i>
Coffeebean	<i>Hemp sesbania</i>
Crabgrass	<i>Digitaria</i> spp.
Croton	<i>Croton</i> spp.
Curly Indigo	<i>Aeschynomene virginica</i>
Dayflower	<i>Commelina communis</i>
Ducksalad	<i>Heteranthera limosa</i>
Eclipta	<i>Eclipta prostrate</i>
Eisen waterhyssop	<i>Bacopa eisenii</i>

False pimpernel	<i>Lindernia</i> spp.
Foxtail	<i>Setaria</i> spp.
Goosegrass	<i>Eleusine indica</i>
Gooseweed	<i>Sphenoclea zeylandica</i>
Ground cherry*	<i>Physalis</i> spp.
Gulf cockspur	<i>Echinochloa crus-gavonis</i>
Hemp sesbania	<i>Sesbania exaltata</i>
Mexicanweed	<i>Caperonia castanifolia</i>
Millet (Texas)	<i>Urochloa texana</i>
Morning-glory	<i>Ipomoea</i>
Mud plantain	<i>Heteranthera reinformis</i>
Paragrass	<i>Urochloa mutica</i>
Pennsylvania smartweed	<i>Polygonum pennsylvanicum</i>
Pickerelweed	<i>Pontederia cordata</i>
Pigweed	<i>Amaranthus</i> spp.
Purple ammannia	<i>Ammannia coccinea</i>
Redstem	<i>Ammannia auriculata</i>
Rice flatsedge	<i>Cyperus iria</i>
Roughseed bulrush	<i>Scirpus mucronatus</i>
Sicklepod*	<i>Cassia obtusifolius</i>
Smallflower umbrella plant	<i>Cyperus difformis</i>
Sourdock	<i>Rumex crispus</i>
Southern naiad	<i>Najas guadalupensis</i>
Spearhead	<i>Phacelia hastate</i>
Texasweed	<i>Caperonia palustris</i>
Water plantain	<i>Alisma</i> spp.
Waterwort	<i>Elatinaceae</i> spp.
Wiregrass	<i>Eleusine indica</i>
Yellow nutsedge	<i>Cyperus esculentus</i>

*Not registered for use in California.

(DUET will not control Bermudagrass, cattail, Johnsongrass, red rice and sprangletop).

NOTE: Resistant biotypes are known to exist in California, including California arrowhead, purple ammannia, redstem, ricefield bulrush and smallflower umbrella plant. DUET may not control these biotypes. Accurate records should be kept of the pesticides applied to individual fields to obtain information regarding the spread and dispersal of the resistant biotypes. Consult your Ag dealer, consultant, applicator, and/or your State Agricultural Extension Service for specific alternative herbicide recommendations available in your area.

GENERAL PRECAUTIONS AND RESTRICTIONS

Several important factors should be taken into account to achieve a high efficiency of selective weed control with DUET. These include uniform application, growth stage, water management and weather conditions. To assure uniform application, mix the prescribed amount of DUET with a sufficient volume of water to provide thorough coverage of target area. For aerial applications use approximately 10 gallons of water or for surface (ground) applications 20-30 gallons of water per acre at sufficient spray pressure. Agitate tank mixes thoroughly and continuously. Avoid over and under application.

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.

A static flood should be placed on treated fields approximately 48 hours following application for optimum weed control results. See 'Application Timing' for additional information concerning flooding.

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 **DUET**. 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.

DO NOT apply this product through any type of irrigation system.

DO NOT apply **DUET** within 14 days before or after carbamate or organophosphate insecticide applications. Serious injury to rice may occur.

Applications to fields where commercial catfish farming is practiced and draining water from treated fields into areas where catfish farming is practiced is prohibited during 12 months following treatment.

DO NOT fish or commercially grow fish, shellfish or crustaceans on treated areas during the 12 months following treatment.

DO NOT plant or transplant crops in the treated area for at least 60 days follow an application of this product.

DO NOT apply more than 6 quarts (6 lbs propanil) per acre per application. Do not apply more than 8 quarts (8 lbs. propanil) per acre per season.

DO NOT apply this product (directly or indirectly) to any crop except rice but **DO NOT** use on wild rice (*Zizania* spp.).

DO NOT use on lawns, walks, driveways, tennis courts or similar areas.

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, prunes and grapes) and other sensitive crops.

DO NOT graze treated fields or feed treated forage within 80 days of the last application.

DO NOT apply within 60 days of harvest.

Water drained from treated rice fields must not be used to irrigate other crops or be released within 1/2 mile of a potable water intake in flowing water (e.g., 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.

WEATHER CONDITIONS:

Weather conditions must be observed closely. Under cool weather conditions, higher rates are required to achieve satisfactory control. Avoid application if rain threatens within 6 to 8 hours, or if wind velocities are high enough to cause drift and irregular spray patterns.

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 above 75°F.

Application Timing: **DUET** 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 **DUET** 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 **DUET**, have produced better results in weed control.

Relative Humidity: **DUET** 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 volumes, 12-15 gallons per acre, should be used when applied aerially.

Wind: Although **DUET** 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 **DUET** 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 **DUET** 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 (leaf tip burn).

SPRAY DRIFT MANAGEMENT

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

IMPORTANCE OF DROPLET SIZE: The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control.

Applications of **DUET** must conform to the conditions set forth in the current CA propanil regulations (3CCR 6462). **Aerial Applications:** Each operating nozzle shall produce a droplet size, in accordance with the manufacturer's specifications, not less than 600 microns volume median diameter (Dv.5) with 10 percent of the diameter by volume (Dv0.1) not less than 200 microns. **Ground Applications:** Each operating nozzle shall produce a droplet size, in accordance with manufacturer's specifications, not less than 500 microns volume median diameter (Dv0.5) with 10 percent of the diameter by volume (Dv0.1) not less than 200 microns.

The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. Applying large droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable

environmental conditions. (See Wind, Temperature and Humidity, and Surface Temperature Inversions sections of this label).

CONTROLLING DROPLET SIZE

Volume: Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure: Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles of increasing pressure.

Number of nozzles: Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.

Nozzle Orientation: Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

Nozzle Type: Use nozzle type that is designed for the intended application. With most nozzle types, narrow spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Application Height: Do not release spray at a height no greater than 10 feet above the ground or crop canopy. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Boom Length

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

Swath Adjustment: When applications are made with a crosswind, 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. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

WIND

Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Applications should be avoided below 3 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up application equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS

Do not make any type of application into temperature inversions. Temperature inversions restrict vertical air mixing, which causes small-suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS

Do not apply by air if drift can occur to sensitive nontarget crops or plants that are within 100 feet of the application site. Sensitive areas include, but are not limited to, residential areas, bodies of water, known habitat for threatened or endangered species, and non-target crops.

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 Highway 14 boundary, is subject to the 7-day water holding interval provisions.

For 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.

BROADCAST RATE

Apply 3 quarts of **DUET** per acre when most grasses have reached the 1 to 3-leaf stage. Use 4 to 5 quarts of **DUET** per acre when the grasses are large (4 to 5 leaf stage) or when unseasonably cool weather conditions prevail. Under dry conditions when grass and broadleaf weeds are stressed, in cases where rice fields have not been drained completely or where weeds are large enough, higher rates of product, 4 to 6 quarts per acre, should be used to achieve control. Barnyardgrass may be controlled up to 30 to 45 days after planting, before rice plants have reached the fully tillered growth stage.

Tank Mix Options: Apply 2 to 4 quarts (depending upon weed size and timing) of **DUET** per acre tank mixed with a postemergent rice application of **Newpath**. An additional application of any propanil formulation can be made prior to flood as long as no single application exceeds 6 lbs. a.i. or a total of 8 lbs. a.i. per acre per season.

When **DUET** is applied with **Newpath** follow the **Newpath** label for recommended surfactants.

When tank mixing with another herbicide, refer to the respective label for rates, methods of application, weeds controlled, proper timing, restrictions and precautions. Always use in accordance with the most restrictive label restrictions and precautions making sure no label dosages are exceeded.

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

WATER MANAGEMENT

For best weed control, establish the permanent flood as soon as possible (within 7 days of application) after the last application of **DUET** herbicide. Loss of permanent flood following applications of **DUET** may result in poor performance due to regrowth of treated plants or reinfestation by newly germinated weeds. Runoff caused by overflow, levee breach, seepage, or introduction of new water soon after treatment may reduce product performance.

IN CALIFORNIA: Use **DUET** only where rice fields are completely drained or a minimal amount of water remains. If a higher water level is desired, reflood field after 12 hours and before 7 days after treatment. This will discourage new weed infestations.

SPRAY MIXTURE PREPARATION

Wet Spray Application

Thoroughly mix **DUET** with clean water (water that is free of sediment and agricultural chemicals) in the spray tank. Do not use water from paddies. Only approved drift control agents may be used with **DUET**. Do not use any other additives except as directed by this label.

To ensure uniform mixing and application, agitate the mixture before application. If the mixture is not sprayed immediately after agitation, reagitrate it before application. Always apply **DUET** spray preparations within 24 hours of product mixing, or the product may degrade.

Do not store **DUET** in nurse tanks or any other tanks used to store or transport clean water. Install one-way valves (anti-siphoning devices) on lines and hoses of mixing/loading equipment to prevent contamination of nurse tanks or other clean water sources.

Mixing and application equipment exposed to **DUET** cannot be used for anything other than rice applications until it has been cleaned according to the procedures in the Sprayer Cleanup section of this label.

Additional Mixing Instructions (wet spray)

1. Fill the tank 1/4 to 1/3 full of clean water.
2. While agitating, add the required amount of **DUET**.
3. Continue agitation until the **DUET** is fully dispersed, at least 5 minutes.
4. Once the **DUET** is fully dispersed, maintain agitation and continue filling the tank with water. The **DUET** should be thoroughly mixed with water before adding any other material.
5. As the tank is filling, add the required tank mix partner (other labeled rice herbicides, adjuvants, drift control agents, etc.).
6. If the mixture is not continuously agitated, settling may occur. If settling occurs, thoroughly re-agitate before using.
7. Apply **DUET** spray preparations within 24 hours of product mixing, or the product may degrade.
8. If **DUET** and a tank mix partner are to be applied in multiple loads, pre-slurry the **DUET** in clean water prior to adding to the tank. This will prevent the tank mix partner from interfering with the dissolution of the **DUET**.

SPRAYER CLEANUP

Before using equipment exposed to **DUET** to treat another crop, clean the sprayer and any other equipment (loading hoses, batch tanks, etc.) using the following procedure:

1. Steam-clean tank using a nonchlorine-based detergent, taking care to remove all physical residues.

2. Thoroughly rinse sprayer, tanks, boom, and hoses with clean water (free of sediment and agricultural chemicals).
3. Fill the tank one-half full with clean water and add Nutrasol at 32 oz per 100 gal of water. Fill the tank to capacity with clean water. Flush the nozzles, boom, and hoses, and agitate (and recirculate, if possible) the sprayer for 15 minutes. Drain the equipment, taking care to flush the boom and hoses thoroughly.
4. Rinse tanks, hoses and nozzles with clean water to remove Nutrasol.
5. Fill the tank one-half full with clean water and add 1 gal of 21% ammonia or 7 gal of 3% ammonia per 100 gal of water. Fill the tank to capacity with clean water. Flush the nozzles, boom, and hoses and agitate (and recirculate, if possible) the sprayer for 15 minutes. Drain the equipment, taking care to flush the boom and hoses thoroughly.
6. Remove nozzles, screens, and strainers, and clean them separately.
7. Rinse tanks, booms, and hoses with clean water.
8. Repeat steps 5 and 7 an additional 3 times.
9. Rinse tanks, booms, and hoses to remove all traces of ammonia.
10. Water rinses may be applied to rice fields. Dispose of bleach rinses at an approved waste disposal facility.

NOTE: When applying multiple loads of **DUET** several days in a row, the following procedure must be performed at the end of each day: partially fill the tank with fresh water, flush the boom and hoses, and allow to sit overnight.

Attention: Do not use chlorine bleach with ammonia. All traces of liquid fertilizer containing ammonia, ammonium nitrate or ammonium sulphate must be rinsed from the mixing and application equipment using water before adding chlorine bleach solution. Failure to do so will release a gas with a musty chlorine odor that can cause eye, nose, and throat and lung irritation. Do not clean equipment in an enclosed area.

Perform cleanup procedures on batch tanks and any other mixing equipment separately from aircraft hoppers. Take care to clean loading hoses and any other equipment or surfaces exposed to **DUET**.

CONDITIONS OF SALE AND WARRANTY

RICECO AND SELLER OFFER THIS PRODUCT AND THE BUYER AND USER ACCEPTS THIS PRODUCT UNDER THE FOLLOWING AGREED CONDITIONS OF SALE AND WARRANTY.

The directions for use of this product are believed to be reliable and must be followed carefully. However, it is impossible to take into account all variables and to eliminate all risks associated with its use. Injury or damage may result because of conditions that are beyond the control of RICECO or the Seller. RICECO warrants only that this product conforms to the chemical description on the label and is believed to be reasonably fit for the purposes referred to in the Directions for Use when used as directed under normal conditions. To the extent consistent with applicable law, RICECO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. To the extent consistent with applicable law in no case shall RICECO or the Seller be liable for consequential, special or indirect damages resulting from the use or handling

of this product. Any variation or exception from this warranty must be in writing and signed by an authorized RICECO representative.



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EPA Stamped Accepted 4/7/08 + scientific weed & container notifications -(approval letter 6/11/08)
Amendment 9-24-08
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“...from the paddy to the plate”