

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PESTICIDE:   x   Registration

MAR 12 2003

EPA Reg. Number: 71085-23

Term of Issuance: Conditional

Name of Pesticide Product: Duet 60 DF

RiceCo LLC.

5100 Poplar Av., Suite 2428

Memphis, TN 38137

This product is conditionally registered in accordance with Section 3(c)(7) of the Federal Insecticide, fungicide, and Rodenticide Act, as amended, provided you submit an acceptable accelerated 14 day study and a storage stability study within 18 months of the date of this registration.

Make the following label changes listed below before you release the product for shipment:

## 1. Under "First Aid";

The sequence of the first aid treatment type is based on the toxicity or severity of each route of entry. Since the effects of primary skin and eye irritation are more severe than the other two, the eye and skin treatments must appear as the first two entries.

## 2. Under "Precautionary Statements";

## a. Replace "Causes eye irritation" with the following:

"This product causes substantial but temporary eye irritation. Do not get in eyes or on clothing. Wear protective eyewear."

## b. Under "Precautionary Statements";

It is suggested that you add the following statements at the end of this section:

"Users should wash thoroughly and change into clean clothing. Dirty clothing should be washed separately from other laundry."

## 3. Under "Spray Drift Management";

Add the following statement at the end of "Information on drop size":

EPA Reg. No. 71085-23

"Applying larger 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 Temperature Inversions)."

- 4. Under "General Information";

Add " Do not apply this product in a greenhouse."

- 5. Make the following label changes listed below before you release the product for shipment:

Add on the front panel, "EPA Reg. No. 71085-23" and "EPA Est. No. 71085-XX-XX."

Submit one copy of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

CONCURRENCES								
SYMBOL ▶	7505C							
SURNAME ▶	Bien							
DATE ▶								



# DUET® 60 DF

## RICE Herbicide

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

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

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

71085-23

MAR 12 2003

**Active Ingredient:**

Propanil: (3', 4' - Dichloropropionanilide) ..... 60.00%  
 Bensulfuron Methyl: (Methyl 2-[[[[[4, 6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]methyl]benzoate) ..... 0.46%  
**Inert Ingredients:** ..... 39.54%

**TOTAL** ..... 100.00%

This product contains .6 lbs. of 3', 4'-Dichloropropionanilide and 2.1 grams of Methyl 2-[[[[[4, 6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]methyl]benzoate per pound of formulated product.

EPA Registration No. 71085-

EPA Establishment No.: 62171-MS-1

### 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.)*

<b>WARNING - AVISO</b>	
<b>FIRST AID</b>	
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advise.</li> </ul>
<b>If on Skin or Clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in Eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with clean water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If Swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have the person sip a glass of water, if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>

<p><b>AGRICULTURAL CHEMICAL</b>  <b>DO NOT SHIP OR STORE WITH FOOD, FEEDS, DRUGS, OR CLOTHING.</b></p>
<p><b>FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call</b>  <b>GLOBAL LOGISTICS @ (504) 439-3140 or (504) 599-3881</b>                  Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>

**NET CONTENTS: 35 Lbs.**

**PRECAUTIONARY STATEMENTS  
HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS  
WARNING**

Harmful if swallowed, absorbed through skin or inhaled. Causes eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. This product may cause an allergic skin reaction. In case of contact, immediately flush eyes or skin with plenty of water. Remove contaminated clothing and wash clothing before reuse. Get medical attention if irritation persists.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical resistant category selection chart.

Applicators and other handlers must wear:

- Coverall worn over short sleeved shirt and short pants
- Chemical resistant gloves, such as barrier laminate or butyl rubber ≥ 14 mils.
- Protective eyewear
- Chemical-resistant footwear plus socks.
- Chemical-resistant headgear for overhead exposure

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROL STATEMENTS:**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATION:**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 shrimp. 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. This product is toxic to fish. 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 target area.

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 (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 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.

### 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, 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 over short-sleeved shirt and short pants
- Chemical resistant gloves, such as barrier laminate or butyl rubber  $\geq$  14 mils.
- Chemical resistant footwear plus socks
- Protective eyewear

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Do not store this product near fertilizers, seeds, insecticides, or fungicides. 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 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.

**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 DISPOSAL:

**Paper Bags:** Empty entire contents of bag into applicator equipment. Dispose of empty bags in a sanitary landfill or by incineration, or by burning if allowed by State and local authorities. If burned, stay out of smoke.

**Fiber Drums:** Empty entire contents of liner, including product residues that may have adhered to liner, into application equipment. Loosen and remove residues by shaking and tapping bottom

and sides of liner. Dispose of liner and any drums that have become contaminated in a sanitary landfill or by incineration if allowed by State and local authorities.

### WHERE TO USE

RiceCo's **DUET® 60 DF** is used for postemergence control of broadleaf, grass, and sedge weeds in RICE fields.

### WEEDS CONTROLLED

Annual arrowhead, barnyardgrass (watergrass), blunt spikerush, brachiaria (signalgrass), cocklebur, coffeeweed, crabgrass, croton, curly indigo, dayflower, ducksalad, eclipta, eisen waterhyssop, falsepimpernel, foxtail, goosegrass, gooseweed, gulf cockspur, hemp sesbania, mexicanweed, millet (Texas), morning-glory, mud plantain, paragrass, Pennsylvania smartweed, pickerelweed, pigweed, purple ammannia, redstem, rice flatsedge, roughseed bulrush, smallflower umbrella plant, sourdock, southern naiad, spearhead, Texasweed, water plantain, waterwort, wiregrass, yellow nutsedge.

(**DUET 60 DF** will not control Bermudagrass, cattail, Johnsongrass, red rice and sprangletop).

**NOTE FOR CALIFORNIA USERS:** Resistant biotypes are known to exist in California, including California arrowhead, purple Ammannia, redstem, ricefield bulrush and smallflower umbrella plant. **DUET 60 DF** 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 INFORMATION

Several important factors should be taken into account to achieve a high efficiency of selective weed control with **DUET 60 DF**. These include uniform application, growth stage, water management and weather conditions. To assure uniform application, mix the prescribed amount of **DUET 60 DF** 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 60 DF**. 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 more than 13.3 pounds of **DUET 60 DF** per growing season.

**DO NOT** apply **DUET 60 DF** within 14 days before or after carbamate or organophosphate insecticide applications. Serious injury to rice may occur.

**DO NOT** apply to fields where commercial catfish or crayfish (crawfish) farming is practiced and **DO NOT** drain water from treated fields into areas where catfish or crayfish (crawfish) farming is practiced.

**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, plums 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.

**DO NOT** rotate to crops other than rice for 60 days following application.

#### **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 above 75°F.

**Application Timing:** **DUET 60 DF** 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 60 DF** 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 60 DF**, have produced better results in weed control.

**Relative Humidity:** **DUET 60 DF** 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 aurally.

**Soil Moisture:** Under dry conditions grass and broadleaf weeds are less susceptible to control. Higher rates of product, 6.6 to 10 pounds per acre, should be used to achieve control.

**Wind:** Although **DUET 60 DF** 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.

### **SPRAY DRIFT MANAGEMENT**

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

The distance from the outer most nozzles to the boom must not exceed  $\frac{3}{4}$  the length of the wingspan or rotor.

Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

### **AERIAL DRIFT REDUCTION ADVISORY**

#### **Information on Droplet Size**

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control.

Applications of **DUET 60 DF** 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 (Dv0.5) 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 larger 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 Temperature Inversions.)

### **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.

**Nozzle Orientation** – Orienting nozzles so that the spray is released backward 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.

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

**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.

### **Boom Length**

For some use patterns, reducing the effective boom length to less than  $\frac{3}{4}$  of the wingspan or rotor length may further reduce drift without reducing swath width.

### **Application Height**

Applications should be made at a height no greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

### **Swath Adjustment**

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the downwind edges of the field, the applicator must compensate for this displacement 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. Application 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 drift.

### **Temperature and Humidity**

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

### **Temperature Inversions**



Applications should not occur during a temperature inversion because drift potential is high. 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 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 when wind conditions will allow drift to sensitive areas. Sensitive areas include, but are not limited to, residential areas, bodies of water, known habitat for threatened or endangered species, and non-target crops.

### **ADJUVANTS AND APPLICATION AIDS:**

When **DUET 60 DF** 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 60 DF** 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 (leaftip burn).

### **RECOMMENDED BROADCAST RATE**

Apply 5 pounds of **DUET 60 DF** per acre when most grasses have reached the 1 to 3 leaf stage. Use 6.6 to 8.3 pounds of **DUET 60 DF** per acre when the grasses are large (4 to 5 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.

**NOTE:** **DUET 60 DF** 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 60 DF** herbicide. Loss of permanent flood following applications of **DUET 60 DF** 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.

**NOTE:** Water drained from treated rice fields must not be used to irrigate other crops or be released within ½ mile of a potable water intake in flowing water (i.e., river, stream, etc.) or within ½ mile of a potable water intake in a standing body of water (i.e., lake, pond, or reservoir.)

**IN CALIFORNIA:** Use **DUET 60 DF** only where rice fields are completely drained or a minimal amount of water remains. If a higher water level is desired, relood 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 60 DF** 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,

e.g. Chemtrol 6, may be used with **DUET 60 DF**. 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 60 DF** spray preparations within 24 hours of product mixing, or the product may degrade.

Do not store **DUET 60 DF** 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 60 DF** 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 60 DF**.
3. Continue agitation until the **DUET 60 DF** is fully dispersed, at least 5 minutes.
4. Once the **DUET 60 DF** is fully dispersed, maintain agitation and continue filling the tank with water. The **DUET 60 DF** 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 60 DF** spray preparations within 24 hours of product mixing, or the product may degrade.
8. If **DUET 60 DF** and a tank mix partner are to be applied in multiple loads, pre-slurry the **DUET 60 DF** in clean water prior to adding to the tank. This will prevent the tank mix partner from interfering with the dissolution of the **DUET 60 DF**.

#### **SPRAYER CLEANUP**

Before using equipment exposed to **DUET 60 DF** 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 Nutra-sol 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 'Nutra-sol'.
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 60 DF** 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 60 DF**.

#### **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 should 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. RICECO MAKES NOT OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. 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.



**RiceCo LLC**  
5100 Poplar Avenue, Suite 2428  
Memphis, Tennessee 38137 USA  
Rev. 3/02-02/03

**DUET** ® is the registered trademark of RiceCo LLC