

71085-38

8/16/2012

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U S ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave N W
Washington D C 20460

EPA Reg Number

71085 38

Date of Issuance

AUG 16 2012

NOTICE OF PESTICIDE

Registration
 Reregistration

(under FIFRA as amended)

Term of Issuance

Registered with Terms and Conditions

Name of Pesticide Product

STAM 80 EDF

Name and Address of Registrant (include ZIP Code)

RiceCo LLC
5100 Poplar Avenue Suite 2428
Memphis TN 38137

Note Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number

On the basis of information furnished by the registrant the above named pesticide is hereby registered/reregistered under the Federal Insecticide Fungicide and Rodenticide Act

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency In order to protect health and the environment the Administrator on his motion may at any time suspend or cancel the registration of a pesticide in accordance with the Act The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others

This product is registered under 3(c)(5) with the following terms and conditions

- As stated within the Agency letter dated July 16 2012 RiceCo must submit to EPA observational exposure data evaluating the proposed system for reducing exposure to mixer/loaders The data must be submitted to the Agency by July 16 2014 In addition a protocol must be submitted prior to the start of the study to ensure that the study will comply with applicable ethics requirements pursuant to 40 CFR 26

If these terms and conditions are not complied with the registration will be subject to cancellation under FIFRA section 6 If you have any questions regarding this notice please contact me at (703) 306 0415 or davis.kable@epa.gov

Signature of Approving Official

Date

AUG 16 2012

Kable Bo Davis Product Manager (25)
Herbicide Branch Registration Division (7505P)

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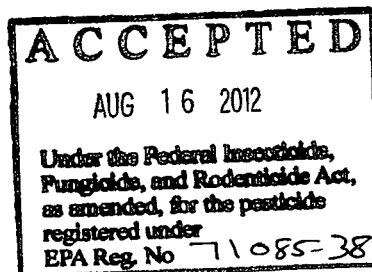
Stam[®] 80 EDF

Herbicide

For postemergence weed control in rice

Active Ingredient		
propanil 3 4 dichloropropionanilide	81%	
Other Ingredients	19%	
Total	100%	

Contains 0.8 lb of active ingredient per 1 lb of product



KEEP OUT OF REACH OF CHILDREN CAUTION

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)

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

Manufactured for
 RiceCo LLC
 5100 Poplar Avenue Suite 2428
 Memphis TN 38137

EPA Reg No 71085 38
 EPA Est No 5905 IA 01
 Net Contents 50 LBS

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FOR CHEMICAL EMERGENCY Spill, leak, fire, exposure or accident, call GLOBAL LOGISTICS at (504) 439 3140 or (727) 374 5705 See back of bag for complete Directions for Use, including Conditions of Sale and Limitation of Warranty and Liability

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful If Swallowed Or Absorbed Through Skin • Causes Moderate Eye Irritation

Avoid contact with skin eyes or clothing

Personal Protective Equipment (PPE)

Some materials that are chemical resistant to this product are natural rubber ≥ 14 mils. If you want more options follow the instructions for category A on an EPA chemical resistance selection chart.

Mixers loaders and other handlers exposed to the concentrate must wear

- Coveralls over long sleeve shirt and long pants
- Chemical resistant gloves made of any waterproof materials
- Chemical resistant footwear plus socks
- Chemical resistant headgear if overhead exposure
- Chemical resistant apron

Applicators and other handlers exposed to the dilute must wear

- Long sleeved shirt and long pants
- Shoes plus socks
- Chemical resistant gloves made of any waterproof materials

See Engineering Controls for additional requirements and options

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

When handlers use closed systems in a manner that meet the requirements listed in the Worker Protection Standards (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. Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)]. Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

User Safety Recommendations

Users should

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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.

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Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water except as specified on this label. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical prior to flooding may result in some 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. Runoff of this product will be reduced by avoiding application 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.

Refer to back panel for Directions for Use including Storage and Disposal

Notice Read the entire label. Use only according to label directions. **Before using this product read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on the label. If terms are unacceptable, return at once unopened.**

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

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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 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 made of any waterproof material
- 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 use pour spill or store near heat or open flame If the entire contents are not used protect remaining material from moisture and heat Resealing by rolling top down and storage under roof are recommended Keep Containers closed when not in use

Pesticide Disposal Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility

Container Disposal Nonrefillable container Do not reuse or refill this container Completely empty bag into application equipment Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or if allowed by state and local authorities by burning If burned stay out of smoke

Steps to be Taken in Case Material is Released or Spilled Sweep or shovel into containers for disposal or reworking Keep dusting to a minimum Flush contaminated area with a large amount of water to a chemical or sanitary sewer containing a settling pit

Use Information

Stam[®] 80 EDF herbicide for postemergence weed control in rice is formulated as an 80% active extruded dry flowable formulation Stam 80 EDF is not a hormone type herbicide but kills susceptible weeds by direct contact action For this reason thorough coverage of emerged weeds is essential for best results Stam 80 EDF has no preemergence or residual herbicidal activity Only weeds that have emerged and are exposed at time of application will be controlled Apply Stam 80 EDF only to fields that have been drained of floodwater Stam 80 EDF is most effective if applied when susceptible grasses and broadleaf weeds are small and growing actively under favorable soil moisture and weather conditions Early weed control removes weed competition from the rice crop saves moisture and generally contributes to increased yields Do not apply when weather conditions favor drift from area to be treated

Read Mixing and Equipment label instructions before application This product is to be dispensed using only the RiceCo Delivery System I (RDS) or other EPA approved closed system For instructions see the RiceCo Delivery System I section When tank mixing always read all individual manufacturers labels In interpreting all labels for the tank mixture the most restrictive situations must apply

Chemigation Do not apply this product through any type of irrigation system

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 determine the potential for spray drift The applicator and the grower are responsible for considering all these factors when making decisions

The following drift management requirements must be followed to avoid off target drift movement from aerial applications to agricultural field crops These requirements do not apply to forestry applications public health uses or to applications using dry formulations

- The distance of the outer most operating nozzles on the boom must not exceed 3/4 the length of the wingspan or 90% of the rotor blade diameter
- Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees
- 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)
- For ground applications apply using a nozzle height of no more than 4 feet above the ground or crop canopy
- 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

Where states have more stringent regulations they should be followed

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

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. 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** – Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** Use the minimum number of nozzles 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 a nozzle type that is designed for the intended application. With most nozzle types, narrower 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 Applications should not be made at a height 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 downwind. Therefore, on the up and 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 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 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 equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions Applications shall not occur during a local, low level 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 temperature 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 the 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.

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Sensitive Areas The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non target crops) is minimal (e.g. when wind is blowing away from the sensitive areas)

For Use on Rice Grown in California Only

Restrictions

- Preharvest Interval** Do not apply this product within 60 days of rice harvest
- **Chemigation** Do not apply this product through any type of irrigation system
Do not apply more than a maximum of 7.5 lb of Stam 80 EDF (6 lb active ingredient) per acre in a single application or exceed 10 lb of Stam 80 EDF (8 lb active ingredient) per acre total dosage per season
- **In California** Use Stam 80 EDF only where rice fields are completely drained or a minimal amount of water remains. If high water level is desired, re-flood field after 12 hours and before 7 days after treatment. This will discourage new weed infestations.
Do not apply this product to any crop other than rice. Stam 80 EDF will cause injury to most crops except cereal grains and perennial grasses
- Do not apply this product (directly or indirectly) to wild rice (*Zizania* spp.)
- Avoid drift or accidental application from turning aircraft on beans, cotton, cucurbits, soybeans, corn, safflower, seedling legumes, vegetables, orchards, vineyards, gardens, shrubs and ornamentals. Once applied, Stam 80 EDF does not release fumes hazardous to nearby crops. Applications to fields where catfish farming is practiced and drain water from treated fields into areas where catfish farming is practiced is prohibited during 12 months following treatment. Do not graze treated fields or feed treated forage within 60 days of the last application.
Do not rotate treated land to other crops or transplant to crops other than rice for 60 days following treatment of this product
- Do not apply this product within 14 days before or after carbamate or organophosphate insecticide applications. Otherwise, serious injuries to rice may occur
- Water drained from treated rice fields must not be used to irrigate other crops or released within 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
- Do not apply when weather conditions favor drift from area to be treated

Emergency Release Provision

Do not discharge water from treated rice paddies in California following treatment unless excessive rainfall completely submerges the rice crop and forces premature release for

- 7 days in dry seeded rice in California
7 days for water seeded rice in California

Weeds Controlled

Stam 80 EDF provides selective postemergence control of the following weeds in rice

Common Name	Scientific Name
annual sedges	<i>Cyperus</i> spp
barnyardgrass [†]	<i>Echinochloa crus galli</i>
crabgrass species	<i>Digitaria</i> spp
early watergrass ^{† ††}	<i>Echinochloa oryzoides</i>
junglerice [†]	<i>E. colonum</i>
late watergrass ^{† ††}	<i>Echinochloa phyllopogon</i>
ricefield bulrush	<i>Scirpus mucronatus</i>
rice flatsedge	<i>Cyperus iria</i>
smallflower umbrella plant	<i>Cyperus difformis</i>

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† In isolated instances biotypes of barnyardgrass/watergrass **may** develop that cannot be effectively controlled by propanil alone. Where these biotypes are known or suspected to be present and are found in a mixed weed population in which Stam 80 EDF is effective, tank mix Stam 80 EDF at labeled rate with other rice herbicides that are recommended for control of barnyardgrass/watergrass (up to the 3 leaf stage).

†† Applications to early and late watergrass made past the 4 leaf stage will result in partial control.

Timing and Dosage

Early Timing and Rates

Apply Stam 80 EDF when a satisfactory stand of rice has been established that will tolerate flooding. The amount of Stam 80 EDF to apply depends upon the growth stage and condition of the target weeds. Stam 80 EDF is most effective if applied when susceptible grasses and broadleaf weeds are small and actively growing under favorable soil moisture and weather conditions. Use a higher rate in the rate range for heavy weed infestations, weeds in advanced stages of growth, or when growing conditions are less than optimum. Emergency treatments made to weeds in advanced growth stages, such as when grass weeds are tillering, must occur at least 60 days before harvest.

For best results, apply Stam 80 EDF at the rate of 3.75 to 5 lb (3 to 4 lb active ingredient) per acre when the grasses are actively growing in the 1 to early 4 leaf stage. This rate will also control many seedling broadleaf and aquatic weeds. Generally, this will be 15 to 25 days after planting.

Mid Timing and Rates

Stam 80 EDF can be applied at the rate of 5 to 7.5 lb (4 to 6 lb active ingredient) per acre to actively growing grasses in the 4 to 6 leaf and early tillering stage, or when they are in the 2 to 4 leaf stage but stressed under dry soil conditions. Generally, this will be 20 to 30 days after planting.

Use of Surfactants The addition of a crop oil concentrate at 1 to 2 pints per acre, or other 80% active nonionic surfactant at a rate of 1 to 2 pints per 100 gallons of spray mixture, is recommended.

Rescue Timing and Rates

Apply Stam 80 EDF at the rate of 6.25 to 7.5 lb (5 to 6 lb active ingredient) in 12 to 15 gallons of spray per acre for emergency control of older tillering grass. Generally, this will be 30 to 40 days after planting. If the field is already flooded, the water should be lowered or drained before spraying to expose more of the grass and weeds. Emergency treatment should be considered as a salvage operation only and cannot be relied upon for total control of grass and weeds.

Mixing Directions

Stam 80 EDF will disperse more quickly if water temperature is 50 F or warmer. Use only clean water for spraying. With the pump and agitator running, slowly add the recommended amount of Stam 80 EDF into a partially filled mix tank. The jet or tank agitators must be positioned to create a rippling or rolling action on the liquid surface and to provide complete agitation at the bottom of the tank, preventing dead spots where the material can accumulate. A centrifugal pump is suggested to provide additional propeller shear action for dispersing and mixing this product. To avoid foaming, keep filling and bypass lines below the liquid surface. Stam 80 EDF must be completely dispersed and mixed prior to application.

If a tank mixture is to be applied, always conduct a compatibility test prior to use by mixing proportional amounts of all spray ingredients in a test vessel (jar). The order of addition to water should be dry flowables or wettable powders first, flowables second, liquid formulations third, and crop oil concentrate last. Allow for each material to go into solution prior to the addition of the next material. Shake the mixture vigorously and allow it to stand for 15 minutes. Rapid precipitation of the ingredients and failure to re-suspend when shaken indicates that the mixture is incompatible and should not be applied.

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As each material is added to the spray mixture always allow for complete mixing before adding the next ingredient Add crop oil concentrate last and continue agitation while filling the mixing tank to the desired spray volume

Do not add Stam 80 EDF directly to the spray tank of aircraft Once properly dispersed in mix tank pump spray mixture to aircraft spray tank (include rinsate from mix tank) To ensure uniformity of sprays maintain good agitation throughout application

RiceCo Delivery System I

When To Use

This product is to be dispensed using only the RiceCo Delivery System I (RDS) or other EPA approved closed system

RDS

The RDS is comprised principally of three parts

- 1) A chemical resistant clear flexible hose with a 2 inch inside diameter for the transfer of dry flowable product
- 2) An aluminum tank assembly that is securely fitted to a mixing tank and to one end of the hose and
- 3) A product bag connector assembly that is securely fitted to the other end of the hose The product bag connector assembly includes an aluminum coupler which is designed to readily connect to a threaded fitment attached to the bag containing the product The connector assembly further includes a plug that is securely screwed into the coupler

Where To Obtain

To obtain a RDS contact RiceCo LLC Customer Service at (901)260 5401 or info@RiceCoLLC.com

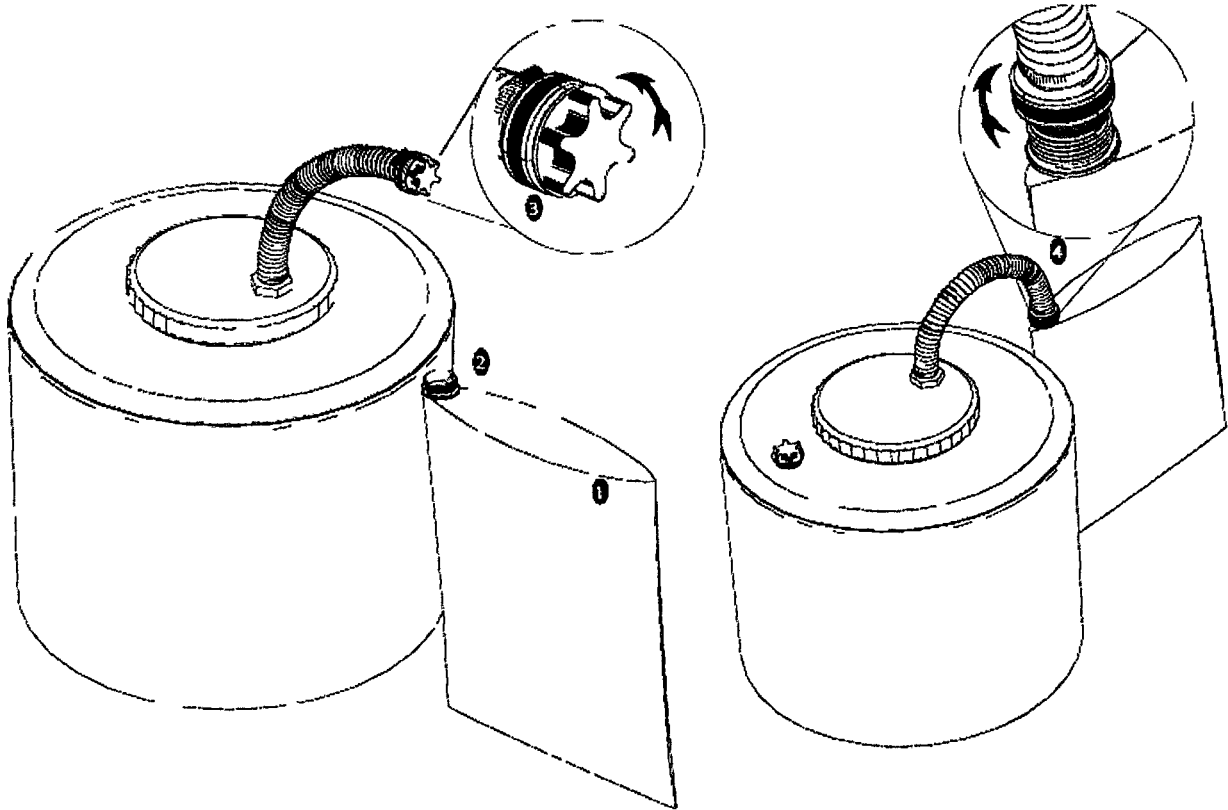
How To Use

Securely fit the RDS to the mixing tank assuring a tight fit to the tank with no leaks or gaps in accordance with the following instructions

- 1 Place aluminum insert through a gasket with threads and hose recesses up through 2 1/8 hole tank or tank lid Attach aluminum nut to threads on aluminum insert until tightened to the outer surface of tank and gasket has sealed the tank Then push on the 2 Tiger Flex® hose until it is seated at the nut and tighten the hose clamp
- 2 Aluminum bag connector insert is inserted through hose clamp and bag connector threaded ring and into the 2 Tiger Flex until it is seated and then tighten hose clamp The bag connector threaded ring will receive the connector gasket with keeper tabs locking under the treads and then will connect to the bag fitment to receive product or when not in use ensure that the aluminum bag assembly plug is securely in place

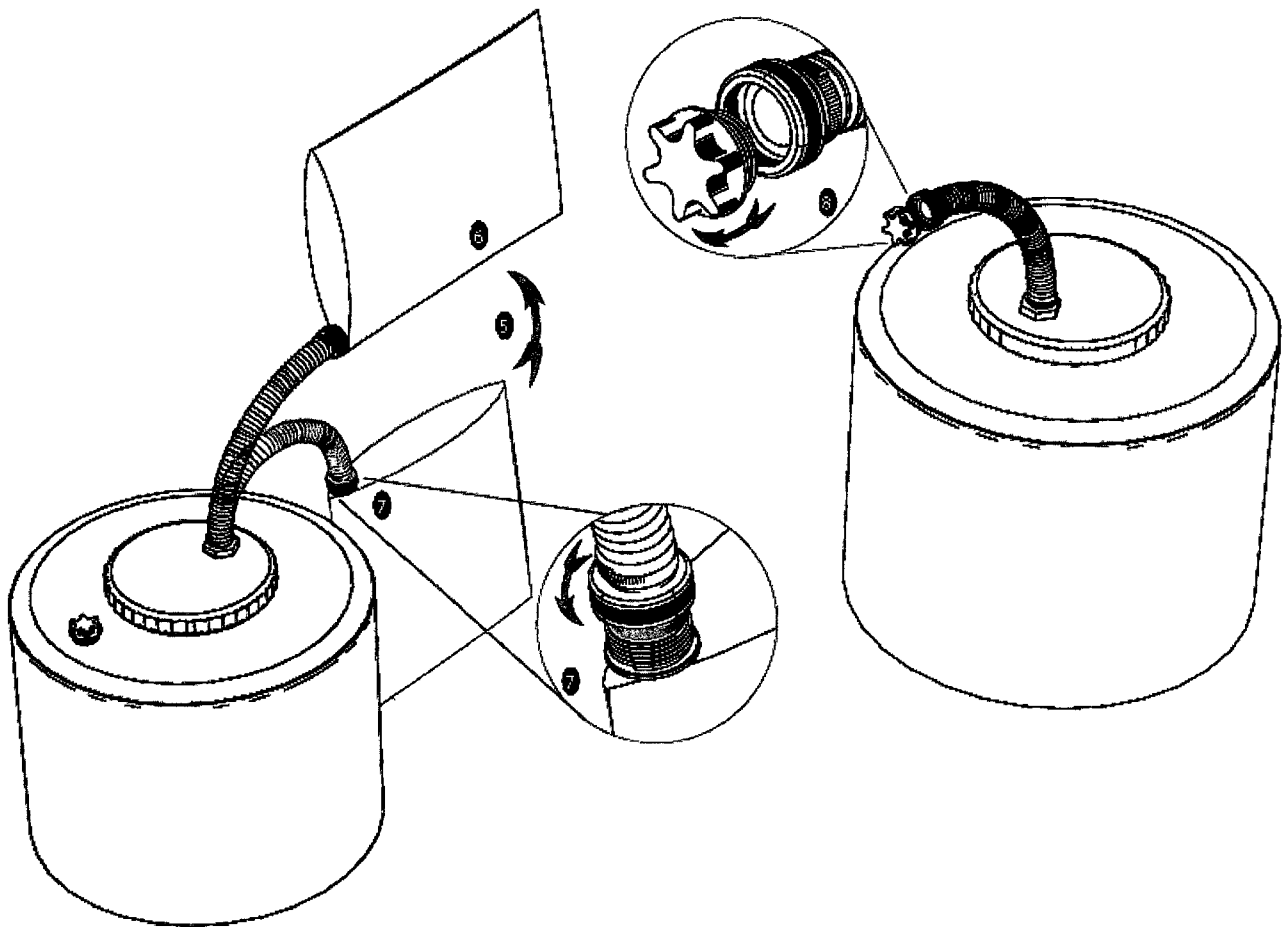
See the instruction sheet that accompanies the RDS

After the RDS is installed on the mixing tank proceed with the following illustrated dispensing steps



- 1 Place the bag upright so it is standing with the bag fitment facing upward
- 2 Remove the tamper evident cap from the bag fitment
- 3 Remove the bag connector assembly plug from hose leaving in place the connector gasket secured by tabs
- 4 Connect bag connector assembly securely to the bag fitment The coupler is specially threaded and designed to readily connect to the product bag fitment

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- 5 Lift bag to allow product to dispense thru RDS into mixing tank
 - 6 Completely empty bag and visually ensure that no product is left in the RDS
 - 7 Return bag to an upright position and disconnect hose coupler from bag fitment
 - 8 Immediately attach plug back on bag connector assembly of hose insuring the connector gasket and plug seal
 - 9 Reattach bag cap to the bag fitment
 - 10 Properly dispose of bag (refer to Storage and Disposal section of this label)
- Attaching the RDS properly should result in a tight fit to the tank with no apparent leaks or gaps

Replacement Parts

For replacement parts for the RDS please contact RiceCo LLC Customer Service at (901)260 5401 or info@RiceCoLLC.com

Restrictions

When dispensing RiceCo LLC Dry Flowable products the RDS is required to be used. The RDS is not authorized for use in dispensing any other dry flowable product unless authorized by RiceCo LLC. Do not use the RDS to dispense liquid products. Prior to each use ensure the RDS is in proper working condition. If damage is noticed replace any damaged components prior to use (see Replacement Parts section of this label)

Application Equipment

Aircraft

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Fixed wing aircraft or helicopters should have well designed spray systems that produce a uniform pattern of medium fine spray droplets. Apply Stam 80 EDF in no less than 10 gallons of total spray per acre with boom nozzle sprayers. Increase volume to 12 to 15 gallons per acre for larger or denser stands of grass or during periods of low humidity.

The optimum effective spray swath width depends upon operating conditions and type of aircraft being used. For uniform spray coverage with fixed wing aircraft or helicopter spray swath width should not exceed the width of wing span or rotor plus 10%. Measure the swaths accurately for flagging.

Ground Sprayers

Use standard low pressure herbicide boom sprayers equipped with flat fan nozzles. Use nozzle sizes that deliver a medium fine droplet in 15 to 20 gallons total spray per acre at 40 to 50 psi and at ground speeds not in excess of 3 to 4 mph. Adjust boom height so nozzle spray patterns meet uniformity. Avoid raising boom too high.

Flush all equipment with clear water after each day's use. Clean all equipment including nurse tanks used for Stam 80 EDF with detergent wash followed by a water rinse **before and after** spraying other pesticides or other crops.

SPRAYER CLEANUP

Before using equipment exposed to this product 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 non-chlorine 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 gallons 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 gallon 21% ammonia or 7 gallons 3% ammonia per 100 gallon 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 this product 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 set 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 this product.

Crop Tolerance and Growing Conditions

All leading commercial varieties of rice are exceptionally tolerant to Stam 80 EDF. A temporary yellowing or tip burn of rice may be noted after treatment, but new growth is normal. Severe leaf burn and partial killing of rice may occur if the product is applied when rice is under stress and in a weakened growth condition due to disease or insect infestations, excessive soil salts, overwatering, or prolonged drought and extremely hot weather. Growers are cautioned not to spray under such conditions and/or when maximum daily temperatures have been or are expected to exceed 100 F.

Effect of Climatic Conditions and Cultural Practices on Weed Control

Field and Seedbed Preparation

Fields should be accurately leveled and contoured and have well prepared seedbeds free of clods. Such conditions encourage uniform and rapid emergence of rice, grass and broadleaf weeds, allowing more accurate timing and coverage of sprays of Stam 80 EDF for optimum weed control.

Water Management

Before application of Stam 80 EDF, drained or dry planted fields should be flushed as often as necessary to prevent drying and crusting. Flushing encourages uniform emergence and vigorous growth of grass, broadleaf weeds and rice, which is essential for optimum weed control. Flushing of fields should occur when weeds and rice are actively growing at time of treatment. Make sure the field is drained prior to treatment so that grasses and broadleaf weeds are fully exposed. Weeds that are partially submerged in standing water at time of application will not be satisfactorily controlled.

Treated fields should be flooded before a second infestation of grass develops. To prevent additional grass weed seed from germinating, rice fields should be flooded within 24 hours after spraying, or as soon as possible after 24 hours.

Temperature

The temperature a few days before and after applying Stam 80 EDF has an important effect on the weed killing activity. The activity increases as daily maximum temperatures increase above 75 F and decreases as the daily maximum temperatures decline below 75 F. Do not apply Stam 80 EDF when maximum temperatures have been or are expected to stay below 65 F or exceed 100 F. Less than optimum temperature at time of application is not critical so long as the temperature exceeds 75°F during the day.

Relative Humidity and Rain

Grasses and weeds are more responsive to Stam 80 EDF during periods of high humidity when the foliage is moist or covered by dew. When the humidity is very low, spray tends to evaporate before reaching weed foliage. For best results under low relative humidity conditions, increase spray volume to 12 to 15 gallons per acre. **Do not** spray if rain is expected within 8 hours to avoid loss of deposited spray and herbicide adsorption by the weeds.

Wind

Do not apply when the wind speed exceeds 10 mph to avoid drift hazard to sensitive crops and the possibility of uneven (streaked) applications.

Compatibility With Other Chemicals

Tank mix applications of Stam 80 EDF with other herbicides, insecticides, spray adjuvants, or liquid fertilizers may reduce crop tolerance and/or weed control or impair mixing properties. Use of these products in tank mix applications with Stam 80 EDF is done at the user's risk.

Adverse Reaction to Insecticides

Rice plants may be severely injured or killed if Stam 80 EDF is applied in tank mix combinations or sequentially before or after certain insecticides. Do not tank mix Stam 80 EDF with carbamate insecticides such as carbaryl, etc., or organophosphorus insecticides (such as malathion and methyl)

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parathion etc) Do not apply any of the carbamate or organophosphorus insecticides to rice fields within 14 days before or after applying Stam 80 EDF

Do not apply Stam 80 EDF to rice fields planted with rice seed treated with bird repellents containing methiocarb Consult local Extension specialist for current recommendations of approved insecticides on rice

For Use on Rice Grown in Southern United States Only – Arkansas Louisiana, Mississippi, Missouri Texas

Restrictions

- **Preharvest Interval** Do not apply this product within 60 days of rice harvest
- **Chemigation** Do not apply this product through any type of irrigation system
- **Do not** apply more than a maximum of 7.5 lb of Stam 80 EDF (6 lb active ingredient) per acre in a single application or exceed 10 lb of Stam 80 EDF (8 lb active ingredient) per acre total dosage per season
- **Do not** apply this product to any crop other than rice Stam 80 EDF will cause injury to most crops except cereal grains and perennial grasses
- **Do not** apply this product (directly or indirectly) to wild rice (*Zizania* spp)
- Avoid drift or accidental application from turning aircraft on beans cotton cucurbits soybeans corn safflower seedling legumes vegetables orchards vineyards gardens shrubs and ornamentals Once applied Stam 80 EDF does not release fumes hazardous to nearby crops
- Applications to fields where catfish farming is practiced and drain water from treated fields into areas where catfish farming is practiced is prohibited during 12 months following treatment **Do not** graze treated fields or feed treated forage within 60 days of the last application
- **Do not** graze treated fields or feed treated forage within 60 days of the last application
- **Do not** rotate treated land to other crops or transplant to crops other than rice for 60 days following treatment of this product
- **Do not** apply this product within 14 days before or after carbamate or organophosphate insecticide applications Otherwise serious injuries to rice may occur
- Water drained from treated rice fields must not be used to irrigate other crops or released within 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
- **Do not** apply when weather conditions favor drift from area to be treated

Emergency Release Provision

Water holding (discharge) intervals for flood water from treated rice paddies following treatment in the southern United States (AR LA MS MO and TX)

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 is 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 For delayed flood (water seeded) rice in Louisiana north of the Highway 14 boundary the water holding interval is 7 days
- For rice in all other parts of the southern United States 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

Weeds Controlled

Stam 80 EDF provides selective postemergence control of the following weeds in rice

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Common Name	Scientific Name
annual sedges	<i>Cyperus</i> spp
barnyardgrass [†]	<i>Echinochloa crus galli</i>
beakrush (spearhead)	<i>Rhynchospora corniculata</i>
broadleaf signalgrass	<i>Bracharia platyphylla</i>
crabgrass species	<i>Digitaria</i> spp
curly dock	<i>Rumex crispus</i>
foxtail species	<i>Setaria</i> spp
goosegrass	<i>Eleusine indica</i>
gulf cockspur	<i>Echinochloa crus pavonis</i>
hemp sesbania (coffeebean)	<i>Sesbania exaltata</i>
hoorahgrass	<i>Fimbristylis miliaceae</i>
junglerice [†]	<i>E colonum</i>
Mexicanweed	<i>Caperonia castanaiifolia</i>
paragrass	<i>Panicum purpurascens</i>
redroot pigweed	<i>Amaranthus retroflexus</i>
redweed	<i>Melochia corchorifolia</i>
rice flatsedge	<i>Cyperus iria</i>
smallflower umbrella plant	<i>Cyperus difformis</i>
spikerush (wiregrass)	<i>Eleocharis</i> spp
Texas panicum	<i>Panicum texanum</i>
watergrass [†]	<i>Echinochloa</i> spp
woolly croton	<i>Croton capitatus</i>

[†] In isolated instances biotypes of barnyardgrass/watergrass **may** develop that cannot be effectively controlled by propanil alone. Where these biotypes are known or suspected to be present and are found in a mixed weed population in which Stam 80 EDF is effective, tank mix Stam 80 EDF at labeled rate with other rice herbicides that are recommended for control of barnyardgrass/watergrass (up to the 3 leaf stage).

Timing and Dosage

Early Timing and Rates

Apply Stam 80 EDF when a satisfactory stand of rice has been established that will tolerate flooding. The amount of Stam 80 EDF to apply depends upon the growth stage and condition of the target weeds. Stam 80 EDF is most effective if applied when susceptible grasses and broadleaf weeds are small and actively growing under favorable soil moisture and weather conditions. Use a higher rate in the rate range for heavy weed infestations, weeds in advanced stages of growth, or when growing conditions are less than optimum. Emergency treatments made to weeds in advanced growth stages, such as when grass weeds are tillering, must occur at least 60 days before harvest.

For best results, apply Stam 80 EDF at the rate of 3.75 to 5 lb (3 to 4 lb active ingredient) per acre when the grasses are actively growing in the 1 to early 4 leaf stage. This rate will also control many seedling broadleaf and aquatic weeds. Generally, this will be 15 to 25 days after planting.

Mid Timing and Rates

Apply Stam 80 EDF at the rate of 5 to 7.5 lb (4 to 6 lb active ingredient) per acre to actively growing grasses in the 4 to 6 leaf and early tillering stage, or when they are in the 2 to 4 leaf stage but stressed under dry soil conditions. Generally, this will be 20 to 30 days after planting.

Use of Surfactants The addition of a crop oil concentrate at 1 to 2 pints per acre, or other 80% active nonionic surfactant at a rate of 1 to 2 pints per 100 gallons of spray mixture, is recommended.

Rescue Timing and Rates

Apply Stam 80 EDF at the rate of 6.25 to 7.5 lb (5 to 6 lb active ingredient) in 12 to 15 gallons of spray per acre for emergency control of older tillering grass. Generally, this will be 30 to 40 days after planting. If the field is already flooded, the water should be lowered or drained before spraying to expose more of the

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grass and weeds. Emergency treatment should be considered as a salvage operation only and cannot be relied upon for total control of grass and weeds.

Mixing Directions

Stam 80 EDF will disperse more quickly if water temperature is 50 F or warmer. Use only clean water for spraying. With the pump and agitator running, slowly add the recommended amount of Stam 80 EDF into a partially filled mix tank. The jet or tank agitators must be positioned to create a rippling or rolling action on the liquid surface and to provide complete agitation at the bottom of the tank, preventing dead spots where the material can accumulate. A centrifugal pump is suggested to provide additional propeller shear action for dispersing and mixing this product. To avoid foaming, keep filling and bypass lines below the liquid surface. Stam 80 EDF must be completely dispersed and mixed prior to application.

If a tank mixture is to be applied, always conduct a compatibility test prior to use by mixing proportional amounts of all spray ingredients in a test vessel (jar). The order of addition to water should be dry flowables or wettable powders first, flowables second, liquid formulations third, and crop oil concentrate last. Allow for each material to go into solution prior to the addition of the next material. Shake the mixture vigorously and allow it to stand for 15 minutes. Rapid precipitation of the ingredients and failure to re-suspend when shaken indicates that the mixture is incompatible and should not be applied.

As each material is added to the spray mixture, always allow for complete mixing before adding the next ingredient. Add crop oil concentrate last and continue agitation while filling the mixing tank to the desired spray volume.

Do not add Stam 80 EDF directly to the spray tank of aircraft. Once properly dispersed in mix tank, pump spray mixture to aircraft spray tank (include rinsate from mix tank). To ensure uniformity of sprays, maintain good agitation throughout application.

Application Equipment

Aircraft

Fixed wing aircraft or helicopters should have well designed spray systems that produce a uniform pattern of medium fine spray droplets. Apply Stam 80 EDF in no less than 10 gallons of total spray per acre with boom nozzle sprayers. Increase volume to 12 to 15 gallons per acre for larger or denser stands of grass or during periods of low humidity.

The optimum effective spray swath width depends upon operating conditions and type of aircraft being used. For uniform spray coverage with fixed wing aircraft or helicopter, spray swath width should not exceed the width of wingspan or rotor plus 10%. Measure the swaths accurately for flagging.

Ground Sprayers

Use standard low pressure herbicide boom sprayers equipped with flat fan nozzles. Use nozzle sizes that deliver a medium fine droplet in 15 to 20 gallons total spray per acre at 40 to 50 psi and at ground speeds not in excess of 3 to 4 mph. Adjust boom height so nozzle spray patterns meet uniformity. Avoid raising boom too high.

Flush all equipment with clear water after each day's use. Clean all equipment, including nurse tanks used for Stam 80 EDF, with detergent wash followed by a water rinse **before and after** spraying other pesticides or other crops.

SPRAYER CLEANUP

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

- 11 Steam clean tank using a non-chlorine based detergent, taking care to remove all physical residues.
- 12 Thoroughly rinse sprayer tanks, boom, and hoses with clean water (free of sediment and agricultural chemicals).

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- 13 Fill the tank one half full with clean water and add Nutrasol at 32 oz per 100 gallons 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.
- 14 Rinse tanks, hoses, and nozzles with clean water to remove Nutrasol.
- 15 Fill the tank one half full with clean water and add 1 gallon 21% ammonia or 7 gallons 3% ammonia per 100 gallon 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.
- 16 Remove nozzles, screens, and strainers, and clean them separately.
- 17 Rinse tanks, booms, and hoses with clean water.
- 18 Repeat steps 5 and 7 an additional 3 times.
- 19 Rinse tanks, booms, and hoses to remove all traces of ammonia.
- 20 Water rinses may be applied to rice fields. Dispose of bleach rinses at an approved waste disposal facility.

NOTE When applying multiple loads of this product 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 set 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 this product.

Crop Tolerance and Growing Conditions

All leading commercial varieties of rice are exceptionally tolerant to Stam 80 EDF. A temporary yellowing or tip burn of rice may be noted after treatment, but new growth is normal. Severe leaf burn and partial killing of rice may occur if the product is applied when rice is under stress and in a weakened growth condition due to disease or insect infestations, excessive soil salts, overwatering, or prolonged drought and extremely hot weather. Growers are cautioned not to spray under such conditions and/or when maximum daily temperatures have been or are expected to exceed 100 F.

Effect of Climatic Conditions and Cultural Practices on Weed Control

Field and Seedbed Preparation

Fields should be accurately leveled and contoured and have well prepared seedbeds free of clods. Such conditions encourage uniform and rapid emergence of rice, grass, and broadleaf weeds, allowing more accurate timing and coverage of sprays of Stam 80 EDF for optimum weed control.

Water Management

Before application of Stam 80 EDF, drained or dry planted fields should be flushed as often as necessary to prevent drying and crusting. Flushing encourages uniform emergence and vigorous growth of grass, broadleaf weeds, and rice, which is essential for optimum weed control. Flushing of fields should occur when weeds and rice are actively growing at time of treatment. Make sure the field is drained prior to treatment so that grasses and broadleaf weeds are fully exposed. Weeds that are partially submerged in standing water at time of application will not be satisfactorily controlled.

Treated fields should be flooded before a second infestation of grass develops. To prevent additional grass weed seed from germinating, rice fields should be flooded within 24 hours after spraying or as soon as possible after 24 hours.

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Temperature

The temperature a few days before and after applying Stam 80 EDF has an important effect on the weed killing activity. The activity increases as daily maximum temperatures increase above 75 F and decreases as the daily maximum temperatures decline below 75 F. Do not apply Stam 80 EDF when maximum temperatures have been or are expected to stay below 65 F or exceed 100 F. Less than optimum temperature at time of application is not critical so long as the temperature exceeds 75°F during the day.

Relative Humidity and Rain

Grasses and weeds are more responsive to Stam 80 EDF during periods of high humidity when the foliage is moist or covered by dew. When the humidity is very low, spray tends to evaporate before reaching weed foliage. For best results under low relative humidity conditions, increase spray volume to 12 to 15 gallons per acre. **Do not** spray if rain is expected within 8 hours to avoid loss of deposited spray and herbicide adsorption by the weeds.

Wind

Do not apply when the wind speed exceeds 10 mph to avoid drift hazard to sensitive crops and the possibility of uneven (streaked) applications.

Compatibility With Other Chemicals

Tank mix applications of Stam 80 EDF with other herbicides, insecticides, spray adjuvants, or liquid fertilizers may reduce crop tolerance and/or weed control or impair mixing properties. Use of these products in tank mix applications with Stam 80 EDF is done at the user's risk.

Adverse Reaction to Insecticides

Rice plants may be severely injured or killed if Stam 80 EDF is applied in tank mix combinations or sequentially before or after certain insecticides. Do not tank mix Stam 80 EDF with carbamate insecticides such as carbaryl, etc. or organophosphorus insecticides (such as malathion and methyl parathion, etc). Do not apply any of the carbamate or organophosphorus insecticides to rice fields within 14 days before or after applying Stam 80 EDF.

Do not apply Stam 80 EDF to rice fields planted with rice seed treated with bird repellents containing methiocarb. Consult local extension specialist for current recommendations of approved insecticides on rice.

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