DEC 2 - 1980

EPA REG NO. 707-109

STAM® M-4

HERBICIDE

4 LB. E.C. FOR POSTEMERGENCE CONTROL OF BARNYARDGRASS AND OTHER WEEDS IN RICE.

WARNING!
KEEP OUT OF REACH OF CHILDREN

Before using this product, read all additional precautionary statements, storage and disposal instructions, use restrictions and limit of warranty and liability statements on side panel.

ACTIVE INGREDIENT	
propanil	
3', 4'-dichloropropionanilide	43.5%*
INERT INGREDIENTS	56.5%
Total	100.0%

*Equivalent to 4 lbs. active ingredient per gallon
U.S. Patent 3,816,092
EPA Reg. No. 707-109-AA
EPA Est. No. 707-PA-1

NET CONTENTS
35 GALS
(132.5 Liters)

ROHM AND HAAS
PHILADELPHIA, PA 19105

6-2684

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

IRRITATING TO EYES AND SKIN.
HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.
MAY BE HARMFUL IF INHALED.

Do not get in eyes or on skin. Wear eye and skin protection when handling. Do not take internally. Avoid breathing spray mist.

FIRST AID

FOR EYE CONTACT: Flush eyes with large amounts of water for at least 15 minutes. Consult a physician, if irritation persists.

FOR SKIN CONTACT: Wash affected area with soap and water.

FOR INGESTION: Induce vomiting by immediately giving two glasses of water to drink and touch back of throat with finger. Call a physician. Never give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

Do not use, pour, spill or store near heat or open flame. Ground all metal containers when transferring product. Protect from freezing. If stored below 32°F and crystals form, warm to 72°F for 24 hours, periodically rolling drum to reconstitute.

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE DISPOSAL: Pesticide, spray mixture or rinsate that cannot be used or chemically reprocessed, should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and offer for recycling, reconditioning, or disposal in approved landfill or bury in a safe place.

GENERAL: Consult Federal, State or local disposal authorities for approved alternative procedures.

DIRECTIONS FOR USE — (FOR RICE GROWN IN SOUTHERN UNITED STATES ONLY.)

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL INFORMATION

STAM M-4 is a selective postemergence herbicide for use in rice only for control of the following weeds:

Barnyardgrass (Watergrass) *Echinochloa crus galli* or *Echinochloa colonum*	Gulf Cockspur *Echinochloa crus pavonis*	Redweed *Melochia corchorifolia*
Brachiaria *Brachiaria* spp	Hoorahgrass *Fimbristylis miliaceae*	Sour Dock *Rumex crispus*
Crabgrass, large *Digitaria sanguinalis*	Mexican Weed *Caperonia palustris*	Spearhead *Rhynchosora corniculata*
Croton, woolly *Croton capitatus*	Paragrass *Panicum purpurascens*	Tall Indigo or Cofee Bean *Sesbania exaltata*
Foxtail *Setaria* spp	Pigweed, redroot *Amaranthus retroflexus*	Texas Millet *Panicum texanum*
Goosegrass *Eleusine indica*		Wiregrass *Eleocharis* spp

STAM M-4 is an emulsifiable concentrate containing 4 pounds active ingredient per U.S. gallon.

STAM M-4 is not a hormone type herbicide, but kills susceptible weeds by direct contact action. For this reason, thorough spray coverage is essential for best results.

STAM M-4 controls only weeds which have emerged and are exposed at the time of application. The product has no preemergence or residual herbicidal activity.

STAM M-4 is most effective if applied when susceptible grasses and broadleaf weeds are small and growing actively under favorable soil moisture and weather conditions.

STAM M-4 should only be applied to fields which have been drained of flood water.

Early weed control removes competition, saves moisture, and generally contributes to increased yields.

USE RESTRICTIONS

Do not apply STAM M-4 t
injures most crops excep
Avoid drift or accidental a
ton, soybeans, corn, saff
orchards, vineyards, garc
STAM M-4 is applied, it
nearby crops.

TIMING AND DOSAGE RE

Treat grassy and weedy fields
tolerate flooding is establishe
apply depends primarily upo
grasses. The growth stage of t
limitations so as to avoid the

For best results apply 3 to 4 qu
when the grasses are actively
rate will also control many see
ally this will be 15 to 25 days
satisfactory weed control do n
single spray application.

Apply 4 to 6 quarts of STAM
growing grasses in the 4 to 6 le
in the 2 to 4 leaf stage but stres
will be 20 to 30 days after pla

EMERGENCY TREATMENT: Us
in 15 gallons of spray per ac
grass. Generally this will be
already flooded, the water sho
expose more of the grass an
considered as a salvage operat
control of grass and weeds.

1377-D19

CAUTION: TO AVOID EXCESSIVE RESIDUES AT HARVEST, DO NOT APPLY STAM M 4 AFTER THE END OF TILLERING FOR THE RICE VARIETY BEING TREATED. DO NOT APPLY MORE THAN A MAXIMUM OF SIX POUNDS ACTIVE INGREDIENT PER ACRE IN A SINGLE APPLICATION OR EXCEED EIGHT POUNDS ACTIVE INGREDIENT PER ACRE TOTAL DOSAGE PER SEASON

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 M 4 on small grass 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 on operating conditions and type of aircraft being used. For uniform spray coverage with fixed wing aircraft, do not exceed a spray swath width 10 percent greater than the wingspan or the length of the boom in helicopters. Measure the swaths accurately for flagging.

Ground Sprayers — Use standard low pressure herbicide sprayers equipped with boom and flat fan nozzles. Use nozzle sizes that deliver a medium fine droplet in 20 to 40 gallons total spray per acre at 40 to 50 p.s.i. and at ground speeds not in excess of 3 to 4 m.p.h. Avoid raising boom too high. Spray patterns should meet uniformly.

Flush all equipment with clear water after each day's use. Clean all equipment including nurse tanks used for STAM M 4 with a detergent wash followed by a water rinse, BEFORE AND AFTER spraying other pesticides or other crops. Applicators and flagmen should avoid contact with spray mist from STAM M 4 or any pesticides and should wear protective clothing and goggles. Wash thoroughly after exposure.

CROP TOLERANCE AND GROWING CONDITIONS

All leading commercial varieties of rice are exceptionally tolerant to STAM M 4. 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 STAM M 4 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 go above 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. This encourages uniform and rapid emergence of rice, grass and broadleaf weeds and permits better timing and coverage of STAM M 4 sprays resulting in optimum weed control.

Water Management

Before application of STAM M 4, drained or dry planted fields should be flushed as often as needed to prevent drying and crusting. Flushing encourages uniform emergence and vigorous growth of grass, broadleaf weeds and rice which is essential for best results with STAM M 4. Flush fields in sufficient time so that 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.

After treatment with STAM M 4, treated fields should always be flooded before a second infestation of grass has a chance to develop. To prevent more grass from germinating after treatment, 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 M 4 has an important bearing on the weed killing activity of STAM M 4. 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 M 4 when maximum temperatures have been or are expected to stay below 65°F or to go above 100°F. Low temperature at time of application is not so important as long as it warms up later during the day.

Relative Humidity and Rain

Grasses and weeds are more responsive to STAM M 4 during periods of high humidity when the foliage is moist or covered by dew. When the humidity is very low some of the STAM M 4 spray may crystallize in the air. When this condition exists, increase spray volume to 12-15 gallons per acre for best results. Do not spray when rain threatens within six hours to avoid loss of the spray deposit before adsorption by the grass.

Wind

Avoid applications of STAM M 4 when the wind speed exceeds 10 m.p.h. because of drift hazard to sensitive crops and the possibility of uneven (streaked) application.

COMPATIBILITY WITH OTHER CHEMICALS

Tank mix applications of STAM M 4 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 M 4 is done at the user's risk.

Insecticides

Severe injury or death of rice plants may result from tank-mix combinations or separate sprays of STAM M 4 and certain insecticides. Do not combine STAM M 4 with SEVIN (carbaryl) or any organic phosphate insecticide such as parathion, methyl parathion, GUTHION, malathion, SYSTOX, EPN, Phosphamidon, etc. Do not apply any of the above insecticides to rice fields within 14 days before or after STAM M 4. Do not use systemic phosphate insecticides such as DI SYSTON, THIMET, etc., on rice fields to be treated with STAM M 4. Consult local Extension specialist for current recommendations of approved insecticides on rice.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use, storage or handling of this product in a manner other than as directed by label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. These risks include, but are not limited to damage to plants, crops and animals to which the material is applied, failure to control pests, damage caused by drifts to other plants or crops, and personal injury.

MADE IN U.S.A.