

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 the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Precautions and Storage and Disposal Instructions on back panel. If the conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

ACTIVE INGREDIENT
Diflufenican
3.4% diflufenican ester
INERT INGREDIENTS
96.6%

Total Weight: 4.0 lb. ester equivalent per gal.
EPA Reg. No. 207-10-101
EPA Est. No. 4001-70-101

NET CONTENTS
35 GALS
(132.5 Liters)

ACCEPTED
JUN 19 1984
EPA Reg. No.

ROHM
AND HAAAS



PHILADELPHIA, PA. 19105

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.

Statement of Practical Treatment

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.

IF INHALED: Remove victim to fresh air. Treat the person symptomatically. If irritation persists, call a physician.

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

STORAGE: Do not use, pour, spill or store near heat or open flame. Ground all metal containers when transferring product. Do not store at temperatures below 15°F. If stored below 15°F and crystals form, warm to 60°F for 24 hours, periodically rolling drum to reconstitute.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinseate is a violation of Federal Law. 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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate ignition sources. Ventilate areas. Avoid breathing vapors. Use MSHA/NIOSH self contained breathing apparatus or air mask for large spills in confined areas. Dike the spill with inert material (sand, earth, fuller's earth, etc.) and if appropriate transfer the liquid and solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Wash clothing before reuse. Keep out of all sewers and open bodies of water.

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 mitis	Sour Dock Rumex crispus
Crabgrass, large Digitaria sanguinalis	Mexican Weed Cyperus palustris	Spearhead Rhynchospora corniculata
Croton, woolly Croton capitatus	Paragrass Panicum purpurascens	Tall Indigo or Coffee Bean Sesbania esaiata
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 to crops which are injured by drift or accidental application. Avoid drift or accidental application to cotton, soybeans, corn, sorghum, orchards, vineyards, gardens, etc. STAM M 4 is applied to rice only in nearby crops.

TIMING AND DOSAGE RECOMMENDATIONS

Treat grassy and weedy fields. STAM M 4 tolerates flooding in established rice. Application depends primarily upon growth stage of weeds. Refer to label limitations so as to avoid the

For best results apply 3 to 4 quarts per acre when the grasses are actively growing. This rate will also control many species of weeds. Usually this will be 15 to 25 days after satisfactory weed control, do not apply more than 1 acre in a single spray application.

Apply 4 to 6 quarts of STAM M 4 to growing grasses in the 4 to 6 leaf stage in the 2 to 4 leaf stage but spray will be 20 to 30 days after planting.

EMERGENCY TREATMENT: Use 15 gallons of spray per acre in grass. Generally this will be already flooded, the water should expose more of the grass and be considered as a salvage operation. Control of grass and weeds.

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ACCEPTED

JUN 19 1984

U.S. Environmental Protection Agency
Registration Division
Pesticide Registration
EPA Reg. No. 727-109

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 15 to 20 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 on 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 kill 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 carbamate insecticides such as carbaryl (Sevin, etc.), methomyl (Lannate, Nudrin, etc.) or organophosphorus insecticides 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 carbamate or systemic organophosphorus insecticides on rice fields to be treated with STAM M 4. **WARNING:** Do not apply STAM M 4 to rice fields which were planted with rice seed treated with bird repellents containing methiocarb such as Meurotol, Borderland Red, etc. Consult local Extension specialist for current recommendations of approved insecticides on rice.

CONDITIONS OF SALE AND WARRANTY

ROHM and HAAS warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. ROHM AND HAAS MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Handling, storage and use of the product by Buyer or User are beyond the control of Rohm and Haas and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. IN NO CASE WILL ROHM AND HAAS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

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