

PROMETRYNE 80W

Herbicide for selective weed control in cotton and celery

ACTIVE INGREDIENT:

Prometryne: 2,4-bis (isopropyl-amino)
 -6- (methyl-thio)-s-triazine.....80%
 INERT INGREDIENTS:.....20%
 TOTAL100%

KEEP OUT OF REACH OF CHILDREN CAUTION

Statement of Practical Treatment

IF ON SKIN - Wash with plenty of soap and water. Get medical attention if irritation persists.

IF IN EYES - Flush with water. Get medical attention if irritation persists.

See side panel for additional precautionary statements.

ACCEPTED
AUG 15 1984

Under the Federal Insecticide, Fungicide, and Rodenticide Act
 Manufactured for: **MAKHTESHIM-AGAN OF NORTH AMERICA INC.**
 551 Fifth Avenue, Suite 1100, New York, NY 10176

EPA Reg. No. 66222-14

EPA Est. No. _____

Net Weight: _____ Lbs.

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Avoid contact with eyes, contact with skin, inhalation of dust and contamination of food and feed.

FEEDING/GRAZING RESTRICTION

Do not allow livestock to feed or graze on treated cotton crops.

ENVIRONMENTAL HAZARDS

Do not contaminate water used for irrigation or domestic purposes. 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.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long sleeved shirt and long pants.
- Waterproof gloves.
- Shoes plus socks.

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.

USER SAFETY RECOMMENDATIONS

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 change into 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.

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.

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

STORAGE AND DISPOSAL

Storage: Do not contaminate water, food, or feed by storage or disposal. Store in a dry place.

Disposal: Completely empty bag into application equipment. Then 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. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

In case of minor spills, follow all precautions indicated above and cleanup immediately. Sweep up and dispose of wastes and broken or empty containers in a landfill approved for pesticide use.

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 12 hours. Exception: if the product is soil-injected or soil-incorporated the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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, waterproof gloves, and shoes plus socks.

GENERAL INFORMATION

Prometryne 80W is a selective herbicide that may be applied either before or after weeds emerge for control of most annual broadleaf weeds and grasses, including pigweed (carelessweed), Florida pusley, smartweed, teasled (prickly sida), annual morningglory, ragweed, groundcherry, mustard, lambquarters, purslane, malva, junglerice, foxtail, wild oats, barnyardgrass (watergrass), crabgrass, signalgrass, and other *Brachiaria* spp., *Panicum* spp., and goosegrass. Prometryne also controls shallow germinating seedlings of cocklebur, coffeeweed, and sandbur. It does not control johnsongrass, bermudagrass, other established perennials, or sprangletop at selective rates.

When applied before weeds emerge, Prometryne enters weeds through their roots. Thus, its effectiveness depends on rainfall or irrigation to move it into the soil. Very dry soil conditions following application may result in poor weed control. Under these conditions, a shallow cultivation or rotary hoeing will generally result in better weed control.

When applied to emerged weeds as a directed spray, Prometryne provides foliar knockdown of existing weeds and/or residual control of later germinating weeds, depending on the rate applied.

EQUIPMENT

Use conventional spray equipment with hydraulic or mechanical agitation. Screens in nozzles and in suction and in line strainers should be no finer than 50-mesh. Use a pump with capacity to maintain 25-40 psi at the nozzles. If hydraulic agitation is used, the pump should also provide sufficient agitation in the tank to keep the mixture in suspension.

Nozzles: For preplant incorporated or preemergence application use fan-type nozzle tips. For postemergence band application use off-center nozzle tips. For

postemergence broadcast application use fan-type nozzle tips or off-center nozzle tips. Use flood-type nozzle tips only in Arizona and California for making layby treatments to cotton at least 18 inches tall.

MIXING INSTRUCTIONS

Mix the proper amount of Prometryne 80W with water in a clean pail to form a slurry. Pour the slurry into the spray tank partially filled with clean water, and then add the rest of the water. Provide sufficient agitation during mixing and application to obtain and maintain a uniform suspension.

CLEANING EQUIPMENT

Wash sprayer thoroughly with clean water immediately after use. Sprayers used to apply Prometryne 80W should not be used to apply pesticides on sensitive crops such as tobacco, sugar beets, or vegetables, as even small residues of Prometryne in the tank may cause injury to these crops.

SEEDBED PREPARATION

To insure proper placement of Prometryne 80W, seedbeds must be well prepared and as free as possible from trash and clods. A firm seedbed is best for obtaining effective weed control. Uniformity in height and width of seedbed is essential for proper postemergence applications of Prometryne 80W. Beds should be low and flat. Take care to avoid planter marks. Wide planter wheels or rollers are recommended. Wheel furrows should also be uniform in depth. Mount the sprayer so that it follows the same rows as the planter.

COTTON

Prometryne 80W may be applied preplant incorporated or preemergence and/or postemergence as recommended in the following tables. The postemergence applications may follow preplant incorporated or preemergence treatments of Prometryne 80W.

Apply Prometryne 80W in 20 to 40 gallons of water per acre as a broadcast or band application at the rates indicated in the following tables.

Do not use on glandless cotton varieties, as crop injury will occur.

NOTE: Do not feed treated forage to livestock, or graze treated areas.

PREPLANT INCORPORATION: (Arizona, California, and New Mexico). Apply Prometryne 80W as a broadcast or band treatment. If broadcast, treat the flat soil surface prior to listing. If banded, apply over partially finished or finished beds. Incorporate up to 4 inches deep immediately after application with PTO-driven equipment, double disk, rolling cultivator, or bed conditioner.

PREPLANT RATES OF APPLICATION		
REGION	SOIL TEXTURE	BROADCAST* RATE PER ACRE
Arizona, California and New Mexico	sand, loamy sand	Do not use
	sandy loam, loam	2 lbs.
	silt loam, clay	3 lbs.

* For band treatment, the amount of Prometryne 80W required may be calculated by the formula.

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$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{amount needed}$$

Precautions: Do not use Prometryne 80W on sand or loamy sand soils, in cut areas of newly leveled field, in areas of excess salt (excess of ECe values of 1.0), or in areas where flooding over the bed is likely to occur as crop injury may result. Do not plant cotton in tractor wheel depressions as crop injury may result. On mulch planted cotton, water back only after cotton seedlings are well established. In New Mexico, apply either preplant incorporated or preemergence (not both)- see Preemergence section.

PREEMERGENCE

Apply at planting or shortly after planting. Prometryne 80W may be used on cotton planted flat, on beds, or in furrows. To avoid concentration of Prometryne 80W in the seed furrow, do not make broadcast applications to cotton planted in furrows more than two inches deep. Band applications may be made to cotton planted in furrows deeper than two inches, but band width should not exceed the width of the bottom of the furrow. Do not use on shallow soils with caliche subsoils or in areas with caliche out-croppings.

Rainfall or irrigation is needed following preemergence application to obtain weed control.

If necessary, cotton may be replanted in soil previously treated with Prometryne 80W. Do not apply a second preemergence application of Prometryne as injury may occur.

PREEMERGENCE (Do not use on sand or loamy sand soil)

Rate of Application

Region	Soil texture	Broadcast* rate per acre
Mid-South & Southeast other than Mississippi River Delta in Miss.	sandy loam	2-2.5 lbs
	silt and clay loam	3 lbs.
	Sherkey Clay (Arkansas only)	3.5 lbs.
Mississippi River Delta in Miss.	sandy loam	2.5-3 lbs.
	silt and clay loam	3.5 lbs.
	Sherkey clay	Do not use
Blacklands of Texas & parts Texas Gulf Coast. & Texas Coastal Bend	loam	1.5 lbs.
	clay	3 lbs.
Rio Grande Valley of Texas**	loam	2 lbs.
	clay	3 lbs.
High Plains, Rolling Plains and Edwards Plateau of Texas, Southwest Texas and New Mexico***	sand, loamy sand	Do not use
	sandy loam	1 lb.
	loam, sandy clay loam	1.5 lbs.
	other clay soils	2 lbs.
Arizona and California	Do not use	

* For band treatment, the amount of Prometryne 80W required may be calculated by the formula:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{amount needed}$$

Do not cover treated bands with soil while cultivating untreated row middles. In Rio Grande Valley of Texas - furrow irrigated cotton - to insure good weed control, make a shallow cultivation if adequate rain does not fall soon after application.

*** New Mexico - apply either preplant incorporated or preemergence (not both) - see Preplant Incorporation section.

POSTEMERGENCE DIRECTED

Take special care in applying Prometryne 80W postemergence to prevent contact of the spray with cotton leaves, or injury may occur. Recommended practices include (1) using precision application equipment so the spray is accurately directed to the base of the cotton plants and still thoroughly covers the soil and weeds beneath the cotton plants, (2) applying during calm periods to prevent drift, (3) using branch lifters or shields if leaf contact cannot be avoided merely by directing the spray, (4) applying only when all plants have exceeded the minimum recommended height, and (5) applying to level, well-prepared surfaces such as beds made with bed-shapers that are relatively free of clods.

Apply to cotton less than 10 inches tall only if cotton is bed or flat-planted. Do not apply to furrow-planted cotton until furrows are leveled (plowed in).

When applying to emerged weeds, add 2 quarts of surfactant per 100 gallons of spray mixture. Use a surfactant that is compatible with Prometryne 80W when applied in cotton and is approved by EPA for use on food and feed crops. Examples include X-77, Tronic, and Triton.

Do not treat cotton under stress from drought, cultivator damage, or fertilizer application.

Cotton three to six inches tall (Texas and the Mid South (Arkansas, Louisiana, Mississippi, Missouri and Tennessee) only): Take extreme care in applying Prometryne 80W to cotton three to six inches tall so the spray does not contact cotton leaves. Apply with a precision applicator equipped with fenders or shields such as Bell Row Shield, Dickey Fenders, or W & A Fenders.

Cotton six or more inches tall (all regions): Applications of Prometryne 80W may be made any time after cotton is six inches tall.

To Control Emerged Weeds Only (Chemical Hoe): All soil textures, two or three applications may be necessary.

Height of cotton and area of use	Height of weeds	Broadcast* rate per acre
3 to 6 inches: Texas and the Mid-South (Arkansas, Louisiana, Mississippi, Missouri and Tennessee)	less than 1 inch	0.6 lb.
6 or more inches All regions	less than 2 inches	0.6-0.8 lb.

*For band treatment, the amount of Prometryne 80W required may be calculated by the formula:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{amount needed}$$

To Control Emerged Weeds and Germinating Weeds (Layby): One application per season.

Region	Soil Texture	Broadcast rate/acre	Height of Cotton	Height of Weeds
Mid-South and Southeast	sandy loam	1.5 lbs.	at least 12 inches	less than 2 inches
	loam	1.75 lbs.		
	clay	2 lbs.		
Blacklands of Oklahoma	loam	1 lb.	at least 12 inches	less than 2 inches
	clay	2 lbs.		

High Plains of Texas and New Mexico	sandy loam and clay	1 lb. at least 12 inches	less than 2 inches
Southwest Texas	loam clay	1.5 lbs. at least 12 inches	less than 2 inches
Rio Grande Valley of Texas	Do not use		
Arizona and California (Do not use in the Coachella Valley)	sand and loamy sand	Do not use	
	loam	2 lbs. at least 12 inches (or 18 inches where flood type nozzles are used)	less than 2 inches

* For band treatment, the amount of Prometryne 80W required may be calculated by the formula:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{amount needed}$$

ROTATIONAL CROPS

The vegetable crops and cover crops listed below may be planted in the fall when Prometryne 80W was applied on cotton by no more than one of these methods that year preplant incorporated, preemergence, or only once at 0.6-0.8 lb. per acre postemergence

- Vegetables : cabbage, okra, onions, peas, red beets, sweetcorn
- Cover Crops (must be plowed down and not used for food or feed) oats, sorghum, winter barley, winter rye, winter wheat.
- Spring-seeded crops in California and Arizona and spring-seeded vegetables in the Rio Grande Valley of Texas should not be planted until after April 1.

CELERY

POSTEMERGENCE TREATMENT OF SEEDBEDS (Florida only)
Broadcast 0.75 - 1 lb. in 20 - 40 gals. of water per acre after celery has 2 - 5 true leaves. Application may be made over the growing celery. Apply only after seeded covers have been removed from seedbeds for at least one week. Apply only once per year to seedbeds.

DIRECT-SEEDED CELERY (California only)

Apply Prometryne 80W at rates given below in a minimum of 20 gals. of water per acre. Within the rate ranges given, use the lower rates on coarse-textured soils and soils low in organic matter, use the higher rates on fine-textured soils and soils high in organic matter

Preemergence: Broadcast 1.5 - 2 lbs. per acre at planting or shortly after planting before celery emerges.

Post-emergence: Broadcast 1 - 1.25 lbs. per acre after celery has 2 - 5 true leaves. Application may be made over the growing celery. Apply before weeds are 2 inches tall.

To avoid injury to Direct-seeded celery: (1) Make either one preemergence or one postemergence application (not both) per celery crop. (2) Do not use on sand or loamy sand. (3) Do not apply if celery is under water stress. (4) Do not apply postemergence treatments of Prometryne 80W with other pesticides. Apply only after foliar applications or other pesticides are dry. (5) Do not apply within two weeks after an application of a herbicidal oil, such as "carrot" oil.

POSTEMERGENCE TREATMENT OF TRANSPLANTS

Apply one application at the appropriate rate from the following table in a minimum of 20 gals. of water per acre during the 2 - 6 week period after transplanting. Within the rate ranges given, use the lower rate on relatively coarse-textured soils and soils low in organic matter; use the higher rate on relatively fine-textured soils and soils high in organic matter. Application may be made over the growing celery. Apply before weeds are 2 inches tall.

State	Soil	Broadcast* rate per acre
Florida	sandy or silt	1-2 lbs.
California	coarse-textured	1.25-2 lbs.
	fine-textured	2-2.5 lbs.
Hawaii	coarse-textured	2-3 lbs.
	fine textured	3-4 lbs.

* For band treatment, the amount of Prometryne 80W required may be calculated by the formula:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{amount needed}$$

ROTATIONAL CROPS

The following crops may be seeded 5 months after applying no more than 2.5 lbs. of Prometryne 80W per acre on celery: cabbage, celery, corn, okra, onions, peas, and red beets.

WARRANTY STATEMENT

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes 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, expressed or implied extends to the use of this product contrary to label instruction or under abnormal conditions or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

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