

REG. NO 2749-3 1/2

PROMETRYNE - MSMA

HERBICIDE

FOR POST-EMERGENCE DIRECTED APPLICATIONS  
FOR WEED CONTROL IN COTTON

ACTIVE INGREDIENTS:

|  |       |
|--|-------|
| 2,4-bis (Isopropylamino)-6-methylthio-s-triazine | 8.6%  |
| Monosodium acid methanearsonate**                | 44.2% |

INERT INGREDIENTS:

|       |        |
|-------|--------|
| TOTAL | 57.2%  |
|       | 100.0% |

Total arsenic, all in water-soluble form, expressed  
as elemental ..... 15.8%

\*\*MSMA

PROMETRYNE + MSMA contains 1 lb. Prometryne and 4 lbs. MSMA  
per gallon.

SHAKE PRIOR TO USE.

Use entire contents at one time.

CAUTION: KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed. Avoid contact with eyes, contact with  
skin, inhalation of vapors or spray mist, and contamination  
of food and feed. Keep away from domestic animals. Keep  
children and animals off treated areas.

If taken internally, induce vomiting and CALL A PHYSICIAN AT ONCE.

Do not contaminate water used by wildlife and aquatic life or for  
domestic and irrigation purposes.

Do not reuse empty container. Destroy when empty.



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#### GENERAL INFORMATION

Post-emergence directed applications of PROMETRYNE + MSMA in cotton will control most annual broadleaf and grassy weeds such as pigweed (carelessweed), teasweed (Sida spp.), annual morningglory, ragweed, ground cherry, lambsquarter, Florida pusley, purslane, malva, (Panicum spp.), cocklebur, velvetleaf, smartweed, carpetweed, coffeeweed, foxtail, barnyardgrass (watergrass), dallisgrass, crabgrass, goosegrass, sandbur, seedling Johnsongrass, (Brachiaria spp.) and nutsedge.

When applied to emerged weeds as a directed spray, PROMETRYNE + MSMA provides foliar knockdown of existing weeds.

#### SPRAY EQUIPMENT INFORMATION

Accurate, uniform placement of PROMETRYNE + MSMA spray is essential for effective weed control and to avoid crop injury. PROMETRYNE + MSMA can be applied with low-pressure spray equipment.

**PUMPS:** Centrifugal, piston or roller pumps with a capacity of at least 10 gals. per minute should be used. If hydraulic jet agitation is used, pumps should be large enough to operate the sprayer and provide sufficient water volume for agitation.

#### **PRESSURE REGULATORS:**

Sprayers should be equipped with a pressure regulator that will eliminate pulsation. The pressure regulator should be equipped with an accurate pressure gauge.

**AGITATION:** PROMETRYNE + MSMA is a suspended formulation. It is very important to provide adequate agitation in the spray tank to avoid any possibility of settling. Mechanical or jet agitation is recommended. If jet agitation is used, a separate line leading directly from the pump (between the pump and shutoff valve) into the sprayer tank should be provided. This line should be equipped with a jet agitator with a fixed orifice (opening) such as TeeJet No. 6290 or 6290SC. Make sure this line reaches the bottom of tank. If two tanks are used, both should be equipped for continuous agitation.

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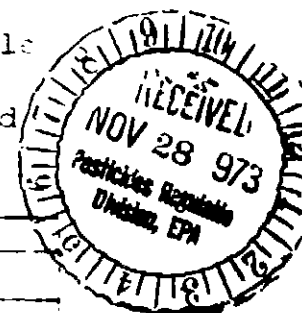
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TANKS: It is very important that tanks be inspected and cleaned to make sure they are free of corrosion and other contaminants.

NOZZLE TIPS: Proper application depends on proper nozzle tip selection. The following tips or similar tips with openings and angles of equal or greater size may be used to apply PROMETRYNE + MSMA.

Post-emergence applications

| Band        | Broadcast                |
|-------------|--------------------------|
| OC-03/OC-04 | 8003/8004 or OC-03/OC-04 |



STRAINERS AND SCREENS: All strainers and screens should be 50 mesh or coarser. A line strainer should be placed on the intake side of the pump and screens should be placed just behind each nozzle tip. The use of pressure-regulated check valves in nozzle strainers (TeeJet No. 4193) is recommended to prevent nozzles from dripping.

BOOMS AND HOSES: It is important that booms and hoses be of sufficient size to provide uniform delivery of spray volume to nozzles. Experience has shown that spray booms and hoses with a minimum diameter of  $\frac{1}{2}$  inch are adequate.

CALIBRATION: Several methods can be used to calibrate the sprayer. Whichever method is used, the calibration procedure should be done with extreme care. Calibrate under actual field conditions. Care should then be taken to maintain constant speed and pressure during the spraying operation. It is suggested that sprayer calibration be checked periodically.

MIXING: Shake the PROMETRYNE + MSMA container well before pouring. Add about  $\frac{1}{2}$  the total volume of water to the tank. Start the pump to provide agitation and pour in the desired amount of herbicide concentrate. Rinse empty herbicide containers and pour into spray tank. Add water to make the total desired volume. It is recommended that additional surfactant be added to the mixture at the rate of 0.5% of the volume.

CLEANING SPRAYERS: Sprayers used to apply PROMETRYNE + MSMA should be thoroughly washed out immediately after use to prevent drying of the herbicide in the tank. Remove each nozzle tip and screen and clean thoroughly. Flush tank, pump, hose and boom with several changes of water. Sprayers used to apply PROMETRYNE + MSMA should not be used to apply pesticides on sensitive crops such as tobacco, sugar beets or vegetables as even small residues of PROMETRYNE + MSMA in the tank may cause injury to these crops.

DIRECTIONS FOR USE:

Special care must be taken in making band or broadcast post-emergence applications of PROMETRYNE + MSMA to prevent contact of the spray with cotton leaves or injury may occur. Recommended practices to utilize in making such applications include 1) using precision application equipment so that the spray may be accurately directed to the base of the cotton plants and still thoroughly cover the soil and weeds beneath the cotton plants, 2) making applications during calm periods to prevent wind 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.

Applications to cotton less than ten inches tall should be made only when the cotton is bed or flat-planted. Application to furrow-planted cotton should not be made until the furrows are leveled (plowed in).

Cotton under stress due to unfavorable environmental conditions such as drought or cultivator damage or fertilizer applications should not be treated.

COTTON THREE TO SIX INCHES TALL /TEXAS AND THE MID-SOUTH (INCLUDES ARKANSAS, LOUISIANA, MISSISSIPPI, MISSOURI AND TENNESSEE) ONLY/

Extreme care should be taken in making applications to cotton three to six inches tall so that the spray does not contact cotton leaves. Applications must be made 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 + MSMA may be made any time after cotton is six inches tall but before it reaches the first bloom stage.

RATES OF APPLICATION:

PROMETRYNE + MSMA should be applied at the rate of 2 quarts per acre broadcast in 10 to 40 gallons of water. For band applications, apply a proportional amount of spray. The addition of a surfactant is recommended such as X-77 or Sterox NJ at the rate of 0.5% of the spray volume (2 qts./100 gallons of solution).



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The following rates shall be used for all broadcast and band applications of PROMETRYNE + MSMA:

| Broadcast | Rate Per Acre* |              |
|-----------|----------------|--------------|
|           | Band**         |              |
|           | 13-inch Band   | 20-inch Band |
| 2 quarts  | 1.3 pints      | 2 pints      |

\*Rates are the same for all geographic areas of use and for all recommended sizes of cotton.

\*\*Based on 40-inch rows. For other band or row widths, adjust the rate in proportion to the area actually treated.

Applications should be made to weeds not more than 2 inches in height. A second application may be required to control weeds such as nutsedge, watergrass, and Johnsongrass. Apply the second application approximately 1-3 weeks after the first application.

#### SUGGESTIONS FOR CROP ROTATIONS

The cover crops and vegetable crops listed below may be planted in rotation in the fall when PROMETRYNE + MSMA was used on cotton as a single post-emergence treatment at the rate of 2 quarts per acre (maximum one application per year).

If post-emergence treatments other than those recommended herein or if PROMETRYNE SCW pre-emergence treatments are used, fall-seeded crops should not be planted. Also, 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 1st.

#### VEGETABLES

|           |            |
|-----------|------------|
| Cabbage   | Okra       |
| Onions    | Peas       |
| Red Beets | Sweet Corn |

#### COVER CROPS\*

|               |              |
|---------------|--------------|
| Oats          | Winter Rye   |
| Winter Barley | Winter Wheat |
| Sorghum       |              |

\*These crops may be planted provided they are plowed down and not used for food or feed.



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PRECAUTIONS

Do not feed treated foliage to livestock or allow grazing on treated acres.

Do not apply more than 1 gallon per acre of PROMETRYNE + MSMA per year.

NOTICE TO USER

Tolerances for residues for prometryne on certain raw agricultural commodities have been set as follows:

1.00 ppm in or on cotton forage  
0.25 ppm in or on cottonseed

Consult the Environmental Protection Agency for changes and additions.

The marketing of raw agricultural commodities having residues in excess of their permitted tolerances, or marketing those for which no tolerances have been set and bearing residues will violate Federal Law when shipped in interstate commerce and may violate State Law.

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