

**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.

**ENVIRONMENTAL HAZARDS**

Do not contaminate water used for irrigation or domestic purposes. Do not contaminate water by cleaning of equipment or disposal of wastes.

**DIRECTIONS FOR USE:**

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

**STORAGE AND DISPOSAL:**

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:**

Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by State and local authorities.

**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, leaved (prickly sida), annual morningglory, ragweed, groundcherry, mustard, lambsquarters, 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 35-40 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 plant packer 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 20-40 gals. 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.

# 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%

**TOTAL 100%**

**CAUTION**

**KEEP OUT OF REACH OF CHILDREN**

**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.*

**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, express 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.

**Manufactured for:** Solchem Inc.  
 2 Park Avenue  
 New York, New York 10016

EPA Reg. No. 38652-2  
 EPA Est. No. 11603-IS-01  
 Net Weight 50 Lbs.

**BEST DOCUMENT AVAILABLE**

**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:

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

**Precautions:** Do not use Prometryne 80W on sand or loamy sand soils, in cut areas of newly leveled fields, 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 outcroppings.

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 80W as injury may occur.

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

**Rates 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.                   |
|   | Sharkey Clay (Arkansas only) | 3.5 lbs.                 |
| Mississippi River Delta in Miss.  | sandy loam                   | 2.5-3 lbs.               |
|   | silt and clay loam           | 3.5 lbs.                 |
|   | Sharkey clay                 | Do not use               |
| Blacklands of Texas & Okla. 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.                 |
| Arizona and California  | other clay soils             | 2 lbs.                   |
|   | Do not use                   | 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.

\*\*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 silt 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 qts. of surfactant per 100 gals. 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, Triton and Triton.

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

Cotton three to six inches tall (Texas and the Mid-South (Arkansas, Louisiana, Mississippi, Missouri, and Tennessee) only) care in applying Prometryne 80W to cotton three to six inches tall so the spray does not contact cotton leaves. Apply with 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<br>Texas and the Mid-South (Arkansas, Louisiana, Mississippi, Missouri and Tennessee) | less than 1 inch   | 0.6 lb.                  |
| 8 or more inches<br>All regions   | less than 2 inches | 3.6-0.8 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                               | 1.5 lbs.                 | at least 12 inches  | less than 2 inches |
|   | loam, clay loam                     | 1.75 lbs., 2 lbs., 1 lb. | at least 12 inches  | less than 2 inches |
| Blacklands of Texas and Oklahoma                            | clay                                | 2 lbs.                   | at least 12 inches  | less than 2 inches |
|   | High Plains of Texas and New Mexico | sandy                    | 1 lb.   | at least 12 inches |
| Southwest Texas   | loam and clay                       | 1.5 lbs.                 | at least 12 inches  | less than 2 inches |
|   | clay                                | 2 lbs.                   | at least 12 inches  | less than 2 inches |
| Rio Grande Valley of Texas                                  | Do not use                          | Do not use               |   |                    |
| Arizona and California (Do not use in the Coachella Valley) | sand and loamy sand                 | Do not use               | 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 were preplant incorporated, preemergence, or only once at 0.6-0.8 lb. per acre postemergence.

Vegetables: cabbage, okra, onions, peas, red beets, sweet corn. 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-true leaves. Application may be made over the growing celery. Apply only after seedbed 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.

Postemergence: Broadcast 1-1.25 lbs. per acre after celery has 2-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 post-emergence 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.

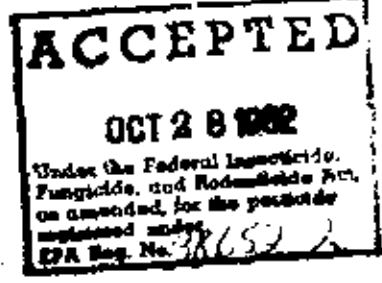
| State      | Soil            | Broadcast* rate per acre |
|------------|-----------------|--------------------------|
| Florida    | sandy or muck   | 1-2 lbs.                 |
| California | coarse-textured | 1.25-2 lbs.              |
|            | fine-textured   | 2-2.5 lbs.               |
| 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. Prometryne 80W per acre on celery: cabbage, celery, corn, peas, onions, peas, and red beets.



BEST DOCUMENT AVAILABLE

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing vapors, dust or spray mist. Remove contaminated clothing and wash before re-use. Do not get in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling and before eating or smoking.

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

**DIRECTIONS FOR USE**

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

**STORAGE AND DISPOSAL**

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

**PESTICIDE DISPOSAL:**

Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, state or local procedures.

**CONTAINER DISPOSAL:**


Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved state and local procedures.

**APPLICATION:** For all uses uniform application is essential. BEAR-OX 486 may be applied either as a dry granular material or as a water spray. Both dry and spray applications become effective as soil treatments following rainfall or irrigation.

**FOR DRY APPLICATION:** Conventional herbicide spreaders may be used. Cyclone type spreader is recommended for use where power equipment is not desired.

**FOR SPRAY APPLICATION:** Equipment with mechanical agitation (preferably vigorous enough to keep dry granules suspended in the water while dissolving) is recommended. First add water to the spray tank. Then with agitator operating, add the BEAR-OX 486. With good agitation, up to 3 pounds per gallon of water may be used. Continue agitation until the herbicide is completely dissolved and preferably until spray tank is empty. Necessary precautions should be taken to keep dissolved material out of pumps and lines.

BEST DOCUMENT A



**Kitten & BEAR**  
BRAND  
BEAR-OX 486

**A GRANULAR NON-SELECTIVE WEED AND GRASS KILLER**

APPLY DRY OR AS WATER SPRAY,  
FOR GENERAL VEGETATION AND PERENNIAL  
GRASSES ON NONCROPPED LAND AND INDUSTRIAL SITES.

ACTIVE INGREDIENTS:  
Sodium metaborate tetra-  
hydrate ..... 68.0%  
Sodium chloride ..... 30.0%  
INERT INGREDIENTS: ..... 2.0%  
TOTAL 100.0%

ONLY FOR SALE TO, USE AND STORAGE BY  
SERVICE PERSONS

KEEP OUT OF REACH OF CHILDREN

**CAUTION**

STATEMENT OF PRACTICAL TREATMENT  
IF SWALLOWED: Call a physician or Poison Control  
Center immediately. Drink one or two glasses of  
water and induce vomiting by touching the back of  
the throat with finger. Repeat until vomit fluid  
is clear. Do not induce vomiting or give anything  
by mouth to an unconscious person.  
IF IN EYES: Flush with plenty of water. See a  
physician if irritation persists.  
IF ON SKIN: Remove contaminated clothing and wash  
affected areas with soap and water.  
IF INHALED: Remove victim to fresh air. Apply  
artificial respiration if indicated.  
SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STA-  
TEMENTS.

EPA REG. No. 43954-  
EPA USE No. 43954-M020E

MANUFACTURED BY:  
STEWART SANITARY SUPPLY, INC.  
512 LOUISIANA BLVD.  
JULY 1970

**GENERAL VEGETATION CONTROL:** BEAR-OX 486 applied as a spray will give quick knock-down of vegetation and residual control of annual broadleaved weeds and grasses on areas such as parking lots, fence lines, highway and railroad sites, and industrial yards. For SPRAY applications: Add 1/2 to 2 pounds of BEAR-OX 486 to sufficient water to cover 100 square feet. Apply as a contact spray thoroughly wetting all parts of the plants particularly the growing tips 1/2 to 1 gallon per 100 square feet is usually adequate for young growth up to 5 inches high. The higher rates may be necessary to insure thorough coverage of heavy vegetation or to provide extended residual control. For DRY application: Apply 1/2 to 2 pounds per 100 square feet. The lighter rates should be used only at time of weed emergence on moist soil, or when precipitation is anticipated while weeds are still young.

**PERENNIAL NOXIOUS WEEDS:** Persistent perennial weeds are most effectively treated when nearing maturity or during dormant stages in the fall. Spring applications may also be made under moderate rainfall conditions. Summer applications are recommended only where rainfall is dependable for leaching the herbicide into the soil. Apply 2 to 4 pounds per 100 square feet in the dry granular form or as a spray. On deep-rooted perennials such as bindweed, Canada thistle, Bermuda grass and quack grass the heavier rates may be required.

**JOHNSON GRASS CONTROL:** In Noncropped Areas: BEAR-OX 486 is effective for control of Johnson grass, Bahiá grass and other deep-rooted perennial grasses on areas such as industrial sites, roadsides, fence lines, drainage ditches, and railroad right-of-ways. Apply dry at 1 to 3 pounds per 100 square feet or add 1 to 3 pounds to 1 or 2 gallons of water per 100 square feet. Johnson grass is most susceptible to BEAR-OX 486 after heading in late summer and into fall. Most efficient and economical control is obtained by treating during this period.

**FOR USE UNDER ASPHALT PAVING:** For use as a "preparing" residual herbicide under asphalt paving to prevent premature breakdown of asphalt paving due to weeds. An application of 2 to 4 pounds per 100 square feet to the finished subgrade is recommended. For spray treatment dissolve 1 to 2 pounds per gallon of water and apply 2 gallons per 100 square feet. For dry treatment apply in granular form. After treatment apply at least 2 gallons of water per 100 square feet to dissolve and incorporate the herbicide in the soil.

**IMPORTANT**

This material is not selective in action and may be toxic to all types of vegetation and may render the entire treated area totally or partially unproductive for one or more years. Care should be taken to confine the use or application to the particular area intended to be treated and to avoid its contact with lawns, trees, shrubs, crops and other desirable plants which are not intended to be destroyed or injured. This includes precautions in treating areas which may be underlaid by roots of adjacent valuable growths. Careless applications of this material, or washing by water run-off, to areas where desirable plants are growing or which will be used for later planting may result in injury to desirable plants. Do not drain or flush equipment on or near such areas. Do not contaminate domestic or irrigation water or waters used by fish and wildlife. Wash clothing and equipment after application. Keep animals off treated areas until rainfall has leached all the herbicide into the soil. Mechanical equipment should be thoroughly cleaned after use.

**NOTICE:** Because of the many varying conditions affecting use and application, such as location, seasonal weather, soil composition and type of vegetation, manufacturer warns buyer that these and other conditions may impair or vary the results or effects of the use of this product. In any event, complete elimination of weeds is not guaranteed. It is advisable to consult your State Extension Service or Agricultural Experiment Station weed specialists on specific problems. Neither manufacturer nor seller shall be liable in respect to any injury or damage suffered by reason of the use of this product for a purpose not indicated by the label or when used contrary to the directions or instructions hereon nor with respect to breach of any warranty not expressly specified herein. Buyer accepts this material subject to these terms and assumes all risks of usage and handling except when used or handled in accordance with this label. Neither manufacturer nor seller makes, and their employees and agents are not permitted to make any representations or warranties, expressed or implied by law, not specifically set forth herein.

**WARRANTY STATEMENT**

Seller makes no warranty expressed or implied concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when use and/or handling is contrary to label instruction.

**BEST DOCUMENT AVAILABLE**

AVAILABLE