# GOWAN PROMETRYNE 4L

ACTIVE INGREDIENT: % BY WT.

Procestryn (2,4-bisfisopropylamino)-6
methylthic)-s-triceine 44.4%
INEXT INGREDIENTS 55.6%

Total 100.0%

Contains 4 lbs. Prometryn per gallon.

# KEEP OUT OR REACH OF CHILDREN CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

IF INHALED, remove victim to tresh uir. Apply antificial respiration if indicated. IF IN EYES, flush eyes with plenty of clear water for at least 15 minutes. Get medical attention if irritation persists.

IF ON SKIN, wash with soop and water.

TETO PHYSICIAN: If ingested, there is no specific antidote, Induce emesis or lavage "aumach. Give saline laxative and supportive therapy.

# **NET CONTENTS 2½ GALLONS**



EPA REG. No. 10163-94 EPA Est. No. 9779-AR-13 P.O. Box 5569 Yuma, Arizona 85366-5549 (602) 783-8844

# PRECAITIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Fivoid breathing vapors or spray mist. Avoid contact with eyes, skin or clothing. Wash theroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

#### ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water when disposing of equipment washwaters. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from area treated.

#### **DIRECTIONS FOR USE**

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

### **RE-ENTRY STATEMENTS**

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason be believe that written warnings cannot be understood by workers. Written and oral warnings must include the following information: CAUTION—Area treated with Prometryne on (date of application) Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, follow instructions under Statement of Practical Treatment Section.

# **CROP USE DIRECTIONS**

See directions for use inside booklet.

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# **GOWAN PROMETRYNE 4**L

**DIRECTIONS FOR USE** 



P.O. P tx 5509 Yuma Az. 85366-5569

EPA Reg No. 10163-94 EPA Est. No. 9775-AR-13

## 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 through any type of irrigation system.

Gowan Prometryne 4L is a selective herbicide that may be applied either before or after weeds emerge for control of most annual broadleof weeds and grasses, including groundcherry, lambsquarter, annual marningglory, mahra, mustard, black nightshade, pigweed (carelessweed), purstann, Florida pusley, ragweed, smortweed, teaweed (prickly sida), barnyardgruss (watergrass), crabgrass, foxtail, goosegrass, junglerice, Panicum spp., signalgrass (and other Brachiaria spp.), and wild oats. 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 moisture to move it into the soil, Under very dry soil conditions after application, a shallow cultivation or rotary looking will generally sult in better weed control.

Then applied to emerged weeds, Prometryna provides foliar knockdown and/or residual control of later germinating weeds, depending on the rate applied.

Following many years of continuous use of this product and chemically related products, biotypes of some of the weeds listed on this label have been reported which cannot be effectively controlled by this and related herbicides. Where this is known or suspected, we recommend the use of this product in combination with other registered herbicides which are not triazines. Consult with your State Agricultural Extension Service for specific recommendations.

FAILURE TO FOLLOW PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR PERFORMANCE, AND/OR ILLEGAL RESIDUES.

# **Equipment and Mixing**

Thoroughly clean sprayer prior to use. Do not use a sprayer contominated with 2,4-D or other materials, as crop damage or sprayer dagging may result.

Use conventicital spray equipment with hydrautic or mechanical agitation except in Colifornia and Arizonia where only mechanical agitators are recommended. Screens in nazzles and in ruction and inline strainers should be no finer than

50-mesh. Use r pump with capacity to maintoin 37-40 psi at the nazzler. If hydravlic agretion is uned, the pilmp should also provide sufficient agricultor, in the tank to keep the mixture in suspension.

Nezzles: For preplant incorporated or pre-mergence application, use flat fan nazzle tips. For poste-mergence band application, use off-center nazzle tips. For postemergence broad-out application, use flat fan or off-center nazzle rips. Use flood nazzle tips only in Arizona and California for lay-by treatment in contant at least 18 inches tall.

Mixing: (1) Fill spray tank ½ to ¼ full with clean water. (2) Start agitation. (3) Four the product directly from the container into the spray tank partially filled with water, and thus add the rest of the water. (4) Provide agitation during mixing and application to maintain a uniform suspension.

Cleaning: \Vash sp. ayur thereughly with clean water is mediately after use. Do not use the sums sprayer on sensitive a ups, as even small residues of Prometryne in the tank may couse injury to these crops.

Seedbed Preparation

To insure proper placement of Gowan Prometryne 11, seedbeds must be well prepared and as free as possible from train and clock. A first specified is best for obtaining effective weed control. Uniformity in haight and width of seedbed is essential for proper poster. "gunze applications of Prometryne, seeds should be low and flat. Take core to avoic closer marks. Wide plants: packing wheels a tollers are recommended. Wheel furrows should be uniform to depth. Mount the sprayer so that it follows the same rows as the planter.

Bor's Treatment

for band treatment, calculate the amount of Griven ?turnet one 41, needed by the formula:

band width in inches

per acre per acre of field

COTTON

Do not allow livestock to teed or graze on treated catron craps.

Garran Primetryne 4L may be applied prentant incorporated or preemergence and/or posteriorgence as recommended in the following tables. The posteriorgence applications may follow proportion incorporated or preemergence treatment of Gavina Prometryne 4L.

Apply Gowan Prometryne 4L in a minimum of 20 gals, of water per acre as broadcast or band application at the rates indicated in the following tables.

Do not use en glandless cotton varieties or crep injury will occur.

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

PREPLANT INCORPORATION (Arizene, California, and New Mexico):
Apply Gowan Promotyne 4L at the appropriate rate 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 Incorporation

Region	Soil Texture	Broadcast rate per acre
Arizona, California,	sand, loamy sand	Do not use
and New Mexico	sandy loam (AZ & CA only)	2.4-3.2 pts.
	sandy loam, loams (NM only)	3.2 pts.
	silt loom, clay	4.8 pts.

Precarions: Do not use Gowan Prometryne 4L in cut areas of newly leveled fields, in areas of excess solt, or in areas where flooding over the beds is likely to occur or crop injury may result. Do not plant cotton in tractor wheel depressions or crop injury may result. On mulch planted cotton, water back only after cotton seedings are well established. In New Mexico, apply either preplicit incorporated or preemergence (not both)—See Preemergence section.

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Gowan Prometryne 4L may be applied aerially and preplant incorporated for word control in ferrow-irrigated cotton (except in Culifornia).

Use period application only where broadcast applications are specified. Apply in a minimum of 5 gallons per acre of total spray. Avoid applications under conditions of the uniform coverage cannot be obtained or where excessive spray drift may occur. To assure that spray will be controllable within the target area when used according to load directions, make applications of a maximum. "ght of 10 ft., using low drift nextless at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not advertely affect adjacent sensitive non-target plants, apply Gowen Prometry at 41 by relevant at a minimum unwind distance of 400 ft. from sensitive plants. Avoid a splication to humans or animals. Flagmen, and Inaders should avoid inhalation of spray this and prolonged contact with skin, and should wash thoroughly before eating and at the end of each day a operation.

#### MEEN ZRGE: ICE

Apply at piceting or risorily after planting at the appropriate rate. Gowall Prometryne 41, may be used an cotten planted flut, on beds, as in ferrows. To otteid concentration of Prometryns in the seed ferrows, do not make broadcast applications to cotton partial in ferrows desper than 2 inches. Band applications may be made to cotton plusted in furrows desper than 2 inches, but band width should not exceed the width of the bottom or the furrows. If bandwid, do not cover treated bands with soil while cuttis thing introductions middles. Do not use on suid or long rand on shallow suits with rolicits subsoils, or in areas with colicits our propriate.

Cotion may be replacted in sell previously treated with Gowan Prometryne 41. Do not apply a second preemergence application of Prometryne or injury may accur.

Preems.	
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keg!un	Soil Texture	Brvadcast rate per acce
Animicous and So meast other than Mississippi River Delta in Mississippi	sandy loam	3.2-4 pts.
	sit axá day loam	4.8 pts.
	Sharkey clcy (Arkansas only)	5.6 pts.
Mississippi River	sandy loam	4-4.8 pts.
Delta in Mississippi	siti and day loam	5.6 pts.
	Sharkey clay	Do not use
Blacklands of Texas and Oklahama, Texas Gulf Coast, and Texas Coastal Bend	loam	2.4 pts.
	clay	4.8 pts.
Rio Grand Volley of Texas*	loam	3.2 pts.
	clay	4.8 pts.
High Plains, Rolling	sond, loany sand	Do not use
Plains and Edwards Plateau of Texas, Southwest Texas and New Mexico**	sandy loam	1.6 pts.
	lana andramilan	2.4 pts.
	other clay soils	3.2 pts.
Arizona and California		Do not use

\*Ria Grande Velley of Texas--Furrow irrigation cotton—It adequate rain does not full soon after application, a shallow cultivation will insure good weed control.

\*\*New Mexico-Apply either preplant incorporated or preemergence (not both)—See Preplant Incorporation section.

#### Winter Wood Central in Texas

For control of winter weeds only, such as the shadow and seedling dack on fall bedded cotton land in the Texas Gulf Chast and Blacklands of Texas, apply 1.2-1.6 pts. of Prometryne per acre in the fall or winter to land that will be planted to cotton the following spring. For best results, apply before weeds emerge. Gowan Prometryne 4L triff give effective control of emerged henbit if applied before it reaches 4-6 inches tall, for postemergence henbit control, add a suitable surfac-

tens, such as X-77°, at 0.5% of spray volume or an emulsifiable oil at 1.0% of spray volume to the spray tank.

#### **POSTEMERGENCE DIRECTED:**

Be especially careful in applying Gowan Prometry.ie 41 posteriorquice to prevent contact of the spray with cotton leaves, or injury may occur. Use precision application equipment so the spray is accurately directed to the base of the cutton plants and still thoroughly covers the soil and weeds beneath the cotton plants. Apply during calm periods to prevent drift. Use leaf lifters or shields it leaf contact cannot be avoided merely by directing the spray. Apply only when all plants have exceeded the minimum recommanded height. Apply to level, with prepared surfaces such as relatively cod-free heds scade with bed-shapors

Do not apply to farrow planted cotton until furrows are leveled iplaced in). Do not treat cotton under stass from drangel, cultivator damage, or fertilizer application.

When applying to emerged weeds, add 2 ats. of surfactant ner 100 gals. of spray mixture. Use a surfactant that is compatible with Prometryne 4L when applied in cotton and is approved by EPA for use on frod and fewd crops. Examples include X-77°, Tracic, and Trium.

# CHEMICAL HO: (Emerged Woods Only):

Apply Gowan Promety to 41, at the appropriate rate two or three times if necessary. In cotton 3-6 inches tall, be extremely careful to avoid spray contact with cotton leaves by applying Prometryne 41, with a precision applicator equipped with fenders or shields such as Bell Row Shield, Dickey Ferulers, or W&A Fenders, in cotton less that 17 inches tall, apply only if cotton is bed or flat-planted.

#### Chemical Ho-

Height of cetton	Height of	Breadcast rate per acre
3 to 6 inches (Arkonso Lovisiana, Mississippi, Missauri, Tennessee, and Texas)	less than 1 inch	1 pl.
6 or more inches (all regions)	less than 2 inches	1-1.a pts.

## LAY-BY (Emerged Woods and Germinating Woods):

Apply Govern Frametryne 4L at the appropriate rate once per season when cotton is at least 12 inches tall §18 inches were flood nozzles are used in Aritana and California). Apply before weeds are 2 inches tall.

#### Lay-By

, -,		
Region	Soil texture	Breadcast rate per ocre
	sandy	2.4 pts.
nid South and	loam	2.8 pts.
Southeast	day	3.2 pts.
lockland; of Texas	loom	1.6 pts.
and Oklohoma	clay	3.2 pts.
High Plains of Texas and New Mexico	sondy	1.6 pts.
	loam and clay	2.4 pts.
Southwest Texas	luam	2.4 pts.
HOOMWEST HEXUS	clay	3.2 pts.
tio Grande Valley o exas		Do not use
Arizona and Colifornia (Do not use in the Coachella Valley)	sandy and loamy sand	Do not use
	sandy loom	2.4-3.2 pts.
	loam	3.2 pts.

## Rotational Crops

The following vegetable and cover crops may be planted in the foll when Prometryne 4L was applied on cotton by no more than one of these methods that year: preplant incorporated, preemergence, or only one chemical has treatment.



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Vacetables

Calibage, okra, onions, peas, and beets, sweet corn.

Cover Crops (must be played down and not used for food or feed,

Oats, sorghum, winter barley, winter rye, winter wf-ect.

Spring-seeded crops in California and Arizona and spring-seeded vigetables in the Rio Grande Villey of Texas should not be pionted until after April 3.

# Gowan Prometryne 4L Combinetions for Cotton

A .unk mix of Gowon Provietryne 4L and Tuffurdin ur a tenk mix of Gowon Prometryns 4L and Providing be applied and preplant incorporated for weed control in a natural.

These tank mixes may be applied arrivally and preplant incorporated (except in California). Use aerial application only where broadcast applications are specified. Turply in a minimum of 5 gals, per ucre of total spray. Avoid applications under conditions where uniform coverage connot be obtained or where excessive spray drift may occur. To assure that spray will be controllable within the target area when used according to label directions, make applications at C maximum keight of 10 ft., using low drift nozeles at a maximum pressure of 40 ps., and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive non-target plants, apply Gowan Prometryne 4L by oiccraft at a minimum upvind distance of 400 ft. from sensitive plants. Avoid application to humans or animals. Flagmen and loaders should a roid inhalation of spray mist and prolonged contact with skin, and should wash thoroughly before eating and at the end of each day's operation.

Prowl Took Mixture (Axzeno, Colifornio, New Mexico, and the upper and lower El Paso Valley of Texas):

This preplant incorporated tank mixture controls all weeds listed an initiative and an the Prowl cotton label. Apply prior to listing or over partially finished or finished as and incorporate immediately. Refer to the fire of leases for specific spraying and incorporation mediate. Continuous agitation in the spray tank is required to keep the material in suspension.

Fill tank 15 to 16 full with clean water and agitate. Premix one part Gowar. Premetryne 47 with one part water and add this diluted mixture into the partially-filled tank while agitating. After complete mixing, add Providic the tank with water while agitating.

Apply the tank wixture with ground equipment in at least 10 gals of wats) per acre or by air in at least 5 gals of water per acre (according to tank mix directions shove) at the appropriate rates from table below.

#### Took mixture with Provide

Garage And

Broaderist	Rate	Per	Acre

Soil Texture	Prcwl	Gewan Prometryne 41	
Scrid, loarny send		Do not use	
Sardy loom	!-1.5 pts.	2,4-3.2 pts.	
loom	1.5·2 pls.	3,2 pts.	
Silt loom, sili, sandy clay loom	1.5-2 pts.	3,2-4.d pts.	
Clay loam, silty clay	1.5-3 pts.	3,2-4.8 pts.	

Use the high rate for each soil texture above if heavy weed populations are anticipated. Use the 3 pt. rate of Prowl for heavy day soils.

Precautions: To Avoid crop injury, ?) Do not use in cut areas of newly leveled fields, in areas of excess salt, or in areas where flooding over the bed is likely to occur. 2) Do not plant cotton in tractor wheel depressions. 3) Do not use this tank mixture when cotton is irrigated up. 4) On mulch planted cotton, water back only after cotton seedlings are well estab ished.

Note: Do not feed treated forage to livestack, or graze treated areas, or illegal residues may result.

Retational Crops: If treated crop is lost, cotton may be replanted. Do not rework the soil. Refer to the Prowl lobel and the Cotton section of this lobel for rotational crop restrictions.

Trifluratin Tank Muxture (Arizona, California, New Mexico and the upper and lower El Paso Volley of Texas): Any FPA registered 4 er 5 lbs. per gollon Triflurolin product may be used for this tool: miz.

This combination controls weed, listed on this label and on the Trifluralin label. This combination also controls shallow-germinating seedlings of cocklebur and coffeeweed.

Nute: Under conditions of very soft water, conduct a compatibility test with Prometryne 41, and Trifleralin to assure compatibility before mixing in spray tank. Follow procedures on the Trifleralin label for soil preparation and incorporation. Apply the tank mix combination to the flat soil before disking. Pour Cowan Prometryne 41 directly into spray tank non-half to three-fourths full of water, allow it to disperse with agitation, add Trifleralin, and then add the rest of rise water. Continuous agitation in the spray tank is required to keep the material in suspension. Apply the tank mixture by ground in at least 20 gals, of water per acre or by air in at least 5 gals, of water per acre (according to tank mix directions above) at the appropriate rates from table below.

#### Tout May with Trifferents

	Breadcrat Rate For Acre		
Seii Texture		5 lb./gal. Trifluralia	Cowa:- Promatryne 4L
Sand, loamy sand	Do Not Use		
Sondy loam	1_{a.	0.8 pt.	2.4-3.2 [3"
Medium : oils	1.5 pts.	1.2 pts.	4 pts.
Fine soils	2 pts.	1.6 pts	4 pts
Muck or peol	Do Not Use		

"Use less share 3.2 pints per acre only in Arizona and California.

Procautions: To avoid crop injury, 1) Do not use in cut areas of numby leveled fields, in areas of excess salt, or in areas vihere Hooding over the bed is likely to occur. 2) Do not plant cotton in tractor wheel depressions. 3) On mulch planted corun, water each only after cotton readlings are well established.

Note: Do not feed treated forage to livestack, or graze treated areas, or illegal residues may result.

Retational Crops: Cobbage, colory, okra, unions, and peas may be planted in the fall after a spring application of Trifleralin + Prometryne. Winter barley, rye, and wheat can be planted in the fall if they are plawed down and not used for food or feed. Refer to the Trifleralin lakel for other directions and precautions.

Trifluralia Split Applice ion (Arizone and California):
Apply a preplant incorporated application of Trifluralin as directed on that label, except use the appropriate rate from the table above. Do not apply Trifluralin before January 1. Follow at planting or just before planting with a preplant incorporated treatment of Prometryne 4L as directed in the Cotton section of this label, except use the uppropriate rate from the table above.

#### DSMA or MSMA

For raster knockdown of the weeds controlled by Prometryne 4L alone, apply 1-1.3 pints of Prometryne 4L plus 3 lbs. active ingredient of DSMA or 2 lbs. active ingredient of MSMA per acre, following the same directions, precautions, and limitations as given on this label for Prometryne 4L applied alon, a postemergence directed (chemical hoe). If needed, make a second application 1-3 weeks after the first application. Do not apply after first bloom.

Several formulations of DSMA and MSMA are available under various trade names from several manufacturers. Observe the directions, finitrations, and precautions on the label of the product used.

#### CELERY-EXCEPT IN CALIFORNIA

# Seedberls (Florida)

Broadcast 1.2-1.6 pts. in a minimum of 20 gals of water per acre after celery has 2-5 true leaves. Application may be made over the celery. Apply only after seedbed covers have been removed from seedbeds for at least one week. Apply only once per year to seedbeds.

### Trunsplants

Apply one application at the appropriate rate from the Table in a minimum at 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 coarsu-tactured soils and soils low in organic matter; use the higher rate on relatively fine-textured soils.

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