66222-15 7/2/2012 1/19

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Kristen B Knox
Makhteshim Agan Of North America Inc
4515 Falls of Neuse Road Suite 300
Raleigh NC 27609

JUL 2 2012

Subject Label Notification Per PR Notice 98 10
Prometryn 4L
EPA Reg No 66222 15
Date Submitted June 18 2012

Dear Ms Knox

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98 10 dated June 18 2012 for the product referenced above The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98 10 and finds that the action requested falls within the scope of PRN 98 10 The label submitted with the application has been stamped Notification and will be placed in our records

If you have any questions regarding this letter please contact Jasmine Branch at (703) 347 0351 or branch jasmine@epa gov

Sincerely,

Kable Davis
Product Manager 25
Herbicide Branch
Registration Division (7505P)

2/19

Please read instructions on reverse before comp[illegible] form Form Approved [illegible] MB No 2070-0060, Approval expires 2 28 95

EPA

United States
Environmental Protection Agency
Washington DC 20460

- [ ] Registration
- [ ] Amendment
- [x] Other

OPP Identifier Number

Application for Pesticide Section I

1 Company/Product Number	2 EPA Product Manager	3 Proposed Classification
66222 15	K Bo Davis	[x] None [ ] Restricted
4 Company/Product (Name)	**PM#**	
Prometryn 4L	Product Manager 25	

5 Name and Address of Applicant *(Include ZIP Code)*

Makhteshim Agan of North America Inc
3120 Highwoods Blvd Suite 100
Raleigh NC 27604

[x] *Check if this is a new address*

6 Expedited Reveiw In accordance with FIFRA Section 3(c)(3)(b)(i) my product is similar or identical in composition and labeling to

EPA Reg No _____

Product Name _____

Section II

- [ ] Amendment Explain below
- [ ] Resubmission in response to Agency letter dated _____
- [x] Notification Explain below
- [ ] Final printed labels in reponse to Agency letter dated
- [ ] Me Too Application
- [ ] Other Explain below

NOTIFICATION
JUL 2 - 2012

Explanation Use additional page(s) if necessary (For section I and Section II)

Notification to add state specific language regarding Arizona and to clarify timing of application language This notification is consistent with the provisions of PRN 98 10 and EPA regulations at 40 CFR 152 46 No other changes have been made to the labeling or the confidential statement of formula for this product I understand that it is a violation of 18 USC § 1001 to willfully make any false statements to the EPA I further understand that if this notification is not consistent with the terms of PRN 98 10 and 40 CFR 152 46 this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under Sections 12 and 14 of FIFRA

Section III

1 Material This Product Will Be Packaged In

Child Resistant Packaging	Unit Packaging	Water Soluble Packaging	2 Type of Container
[ ] Yes [ ] No	[ ] Yes [ ] No	[ ] Yes [ ] No	[ ] Metal [ ] Plastic [ ] Glass [ ] Paper [ ] Other (Specify)
* *Certification must be submitted*	If Yes Unit Packaging wgt / No per container	If Yes Package wgt / No per container	

3 Location of Net Contents Information	4 Size(s) Retail Container	5 Location of Label Directions
[ ] Label [ ] Container		

6 Manner in Which Label is Affixed to Product [ ] Lithograph [ ] Paper glued [ ] Stenciled [ ] Other _____

Section IV

1 Contact Point *(Complete items directly below for identification of individual to be contacted if necessary to process this application)*

Name	Title	Telephone No (Include Area Code)
Kelly Wall Powell	Regulatory Specialist	919 256 9357

Certification

I certify that the statements I have made on this form and all attachments thereto are true accurate and complete I acknowledge that any knowlingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law

6 Date Application Received
"stamped"

2 Signature	3 Title
Kristen B Knox	Product Registration Manager
4 Typed Name	**5 Date**
Kristen B Knox	June 18 2012

EPA Form 8570 1 (Rev 3 94) Previous editions are obsolete White EPA File Copy (original) Yellow Applicant Copy

3/19

June 18 2012

Document Processing Desk (NOTIF)
Registration Division (7504P)
Office of Pesticide Programs
U S EPA One Potomac Yard
2777 S Crystal Drive Room S 4900
Arlington VA 22202

ATTN K Bo Davis PM Team 25
(703) 306 0415

RE Prometryn 4L EPA Reg No 66222 15
Notification to add state specific and application language

Dear Mr Davis

We are notifying the Agency that Makhteshim Agan of North America Inc is adding state specific language regarding Arizona as well as language to clarify the timing of application We have also updated our company address on the label

This notification is consistent with the provisions of PR Notice 98 10 and EPA regulation 40 CFR 152 46 and no other changes have been made to the labeling or the confidential statement of formula for this product I understand that it is a violation of 18 U S C Sec 1001 to willfully make any false statement to the EPA I further understand that if this notification is not consistent with the terms of PR Notice 98 10 and 40 CFR 152 46 this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA

In support of this submission the following documents are attached

- Application for Pesticide Registration (EPA Form 8570 1)
- One annotated copy of the printed label and
- [redacted] one clean copy of the printed label

If you need any further information to process this submission please contact me at phone 919 256 9337 or e mail kknox@manainc com

Best regards

Kristen B Knox
Product Registration Manager

www manainc com
P (919) 256-9300
F (919) 256-9308
3120 Highwoods Blvd
Suite 100
Raleigh, NC 27604
MANA Crop Protection

GROUP 5 HERBICIDE (symbol)

PROMETRYN 4L

Herbicide

Intended for Agricultural or Commercial Use Only Not intended for use by homeowners

For selective weed control in carrot celeriac cilantro cotton dill leafy petiole (cardoon celery Chinese celery celtuce Florence fennel rhubarb Swiss chard) okra parsley and pigeon peas

ACTIVE INGREDIENT	**% BY WT**
Prometryn 2 4 bis (isopropyl amino) 6 (methylthio) *s* triazine	44 0%
OTHER INGREDIENTS	56 0%
TOTAL	100 0%

Contains 4 lbs active ingredient per gal

Shake well before using

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID	
IF SWALLOWED	• Call a poison control center or doctor immediately for treatment advice
	• Have person sip a glass of water if able to swallow
	• Do not induce vomiting unless told to do so by a poison control center or doctor
	• Do not give anything by mouth to an unconscious person
IF IN EYES	• Hold eye open and rinse slowly and gently with water for 15 20 minutes
	• Remove contact lenses if present after the first 5 minutes then continue rinsing eye
	• Call a poison control center or doctor for treatment advice
IF INHALED	• Move person to fresh air
	• If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth to mouth if possible
	• Call a poison control center or doctor for further treatment advice
IF ON SKIN OR CLOTHING	• Take off contaminated clothing
	• Rinse skin immediately with plenty of water for 15 20 minutes
	• Call a poison control center or doctor for treatment advice

Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact PROSAR at 1 877 250 9291 for emergency medical treatment information

NET CONTENTS 2 5 GALLON(S)

EPA Reg No 66222 15
EPA Est No [redacted]

NOTIFICATION

JUL 2 - 2012

Manufactured for
Makhteshim Agan of North America Inc
3120 Highwoods Blvd Suite 100
Raleigh NC 27604

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if swallowed absorbed through skin or inhaled Causes moderate eye irritation Avoid contact with eyes skin or clothing Do not breathe vapor or spray mist Remove contaminated clothing and wash clothing before reuse Wash thoroughly with soap and water after handling and before eating drinking chewing gum using tobacco or using the toilet

ENVIRONMENTAL HAZARDS

Do not apply directly to water or 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 wash water or rinsate Drift and runoff may be hazardous to aquatic organisms in neighboring areas Do not apply where runoff is likely to occur Do not apply when weather conditions favor drift from treated areas

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear

Long sleeved shirt and long pants
Shoes plus socks
Chemical resistant gloves made of waterproof materials such as butyl rubber ≥ 14 mils nitrile rubber ≥ 14 mils or neoprene rubber ≥ 14 mils

In addition mixers and loaders supporting aerial applications must wear

Chemical resistant apron
Any NIOSH approved particulate filter respirator with the approval number prefix TC 84A

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

ENGINEERING CONTROL STATEMENTS When handlers use closed systems enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240(d)(4 6)] the handler PPE requirements may be reduced or modified as specified in the WPS

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 put on 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

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 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 for all crops 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
- Chemical resistant gloves made of waterproof materials such as butyl rubber ≥ 14 mils nitrile rubber ≥ 14 mils or neoprene rubber ≥ 14 mils
- Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY POOR PERFORMANCE AND/OR ILLEGAL RESIDUES

CHEMIGATION STATEMENT

Refer to the section entitled APPLICATION THROUGH IRRIGATION SYSTEMS CHEMIGATION for use directions for chemigation Do not apply this product through any irrigation system unless the instructions for chemigation are followed

PRODUCT INFORMATION

Prometryn 4L is a selective herbicide that may be applied either before or after weeds emerge for control of most annual broadleaf weeds and grasses including groundcherry lambsquarters annual morningglory malva mustard black nightshade pigweed (carelessweed) purslane Florida pusley ragweed smartweed teaweed (prickly sida) barnyardgrass (watergrass) crabgrass foxtail goosegrass junglerice *Panicum* spp signalgrass (and other *Brachiaria* spp) and wild oats Prometryn 4L also controls shallow germinating seedlings of cocklebur coffeeweed and sandbur Prometryn 4L will also provide partial control of spurred anoda (cottonweed) rough blackfoot (ironweed cluster flaveria) and prairie sunflower in NM and western TX Prometryn 4L does not control johnsongrass bermudagrass other established perennials or sprangletop at selective rates

When applied before weeds emerge Prometryn 4L 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 hoeing will generally result in better weed control

When applied to emerged weeds Prometryn 4L provides foliar knockdown and/or residual control of later germinating weeds depending on the rate applied

Resistance Management

Prometryn 4L is a Group 5 herbicide Any weed population may contain or develop plants naturally resistant to Prometryn 4L and other Group 5 herbicides Weed species with acquired resistance to Group 5 may eventually dominate the weed population if Group 5 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species This may result in partial or total loss of control of those species by Prometryn 4L or other Group 5 herbicides

To delay herbicide resistance consider

- Avoid the consecutive use of Prometryn 4L or other target site of action Group 5 herbicides that have a similar target site of action on the same weed species
- Using tank mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use have different sites of action and are both effective at the tank mix or premix rate on the weed(s) of concern
- Basing herbicide use on a comprehensive IPM program
- Monitoring treated weed populations for loss of field efficacy
- Contacting your local extension specialist certified crop advisor and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes

To avoid spray drift do not apply under windy conditions Avoid spray overlap as crop injury may result

When an adjuvant is to be used with this product Makhteshim Agan of North America Inc suggests the use of a Chemical Producers and Distributors Association certified adjuvant

APPLICATION PROCEDURES

GROUND APPLICATION (ALL USES)

Use conventional ground sprayers equipped with hydraulic or mechanical agitation except in Arizona and California where only mechanical agitators are recommended

7/19

Calibrate sprayer before use and recalibrate at the start of each season and when changing carriers Unless otherwise specified use a minimum of 10 gallons of spray mixture per acre for all preplant incorporated preemergence and postemergence applications (with or without surfactant) with ground equipment

Use a pump with capacity to (1) maintain 35 40 psi at nozzles and (2) provide sufficient agitation in tank to keep mixture in suspension A centrifugal pump which provides propeller shear action is recommended for dispersing and mixing this product The pump should provide a minimum of 20 gallons/minute/100 gallons tank size circulated through a correctly positioned sparger tube or jets

For preplant incorporated or preemergence application use flat fan nozzle tips For postemergence band application use drop extraction tubes off center nozzle tips For preplant and postemergence broadcast application use flat fan or off center nozzle tips Use flood nozzle tips only in Arizona and California for lay by treatment in cotton at least 18 inches tall

Use screens to protect the pump and to prevent nozzles from clogging Screens placed on the suction side of the pump should be 16 mesh or coarser Do not place a screen in the recirculation line Use 50 mesh or coarser screens between the pump and boom and where required at the nozzles Check nozzle manufacturer s recommendations

For band applications calculate amount to be applied per acre as follows

Band width in inches / Row spacing in inches X Broadcast rate per acre = Amount needed per acre of field

AERIAL APPLICATION (PREPLANT PREEMERGENCE AND WINTER WEED CONTROL (COTTON ONLY))
Use aerial application only where broadcast applications are specified Use a minimum of 3 gallons of spray mixture per acre Avoid applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur Do not use aerial application postemergence

Avoid application to humans or animals Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin

To assure that spray will be controllable within the target area when used according to label directions make applications at a maximum height of 10 feet above vegetation using low drift nozzles 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 adversely affect adjacent sensitive nontarget plants apply Prometryn 4L by aircraft at a minimum upwind distance of 400 feet from sensitive plants Avoid spray overlap as injury may occur

AERIAL SPRAY DRIFT MANAGEMENT

- Avoiding spray drift at the application site is the responsibility of the applicator The interaction of many equipment and weather related factors determine the potential for spray drift The applicator and the grower are responsible for considering all these factors when making decisions regarding spraying
- The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor
- Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees

AERIAL DRIFT ADVISORY INFORMATION
Information on Droplet Size
The most effective way to reduce drift potential is to apply large droplets The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly or under unfavorable environmental conditions (see **WIND TEMPERATURE and HUMIDITY** and **TEMPERATURE INVERSIONS** sections)

CONTROLLING DROPLET SIZE

- **Volume** Use high flow rate nozzles to apply the highest practical spray volume Nozzles with higher rated flows produce larger droplets
- **Pressure** Do not exceed the nozzle manufacturer s recommended pressures For many nozzle types lower pressure produces larger droplets When higher flow rates are needed use higher flow rate nozzles instead of increasing pressure
- **Number of nozzles** Use the minimum number of nozzles that provide uniform coverage

- **Nozzle Orientation** Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice Significant deflection from horizontal will reduce droplet size and increase drift potential
- **Nozzle Type** Use a nozzle type that is designed for the intended application With most nozzle types narrower spray angles produce larger droplets Consider using low drift nozzles Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift

APPLICATION HEIGHT

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is recommended for aircraft safety Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind

SWATH ADJUSTMENT

When applications are made with a crosswind the swath will be displaced downwind Therefore on the up and downwind edges of the field the applicator must compensate for this displacement by adjusting the path of the aircraft upwind Swath adjustment distance should increase with increasing drift potential (higher wind smaller drops etc)

WIND

Drift potential is lowest between wind speeds of 2 10 mph However many factors including droplet size and equipment type determine drift potential at any given speed Application should be avoided below 2 mph due to variable wind direction and high inversion potential **Note** Local terrain can influence wind patterns Every applicator should be familiar with local wind patterns

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity set up equipment to produce larger droplets to compensate for evaporation Droplet evaporation is most severe when conditions are both hot and dry

TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high Temperature inversions restrict vertical air mixing which causes small suspended droplets to remain in a concentrated cloud This cloud can move in unpredictable directions due to the light variable winds common during inversions Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind They begin to form as the sun sets and often continue into the morning Their presence can be indicated by movement of smoke from a ground source or an aircraft smoke generator Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion while smoke that moves upward and rapidly dissipates indicates good vertical air mixing

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e g residential areas bodies of water known habitat for threatened or endangered species non target crops) is minimal (e g when wind is blowing away from the sensitive areas)

MIXING PROCEDURES (ALL USES)

1 Be sure sprayer is clean and not contaminated with any other materials or crop injury or sprayer clogging may result
2 Fill tank ¼ full with clean water
3 Start agitation
4 Be certain that the agitation system is working properly and creates a rippling or rolling action on the liquid surface
5 Pour product directly from container into partially filled spray tank
6 Continue filing tank until 90% full Increase agitation if necessary to maintain surface action
7 Add tank mix herbicide(s)

CLEANING

Wash sprayer thoroughly with clean water immediately after use Do not use the same sprayer without thoroughly cleaning on sensitive crops as even small residues of Prometryn 4L in the tank may cause injury to these crops

SEEDBED PREPARATION

To ensure proper placement of Prometryn 4L 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 Prometryn 4L Beds should be low and flat Take care to avoid planter marks Wide planter packing wheels or rollers are recommended Wheel furrows should be uniform in depth Mount the sprayer so that it follows the same rows as the planter

COTTON PROMETRYN 4L ALONE

Prometryn 4L may be applied preplant preplant incorporated (Arizona California and New Mexico) or preemergence and/or postemergence as directed in the following tables The postemergence applications may follow preplant incorporated or preemergence treatments of Prometryn 4L

Do not use on glandless cotton varieties or crop injury will occur

NOTE Do not feed treated forage to livestock or graze treated areas or illegal residues may result

A PREPLANT

Apply before planting at the appropriate rate in Table A Prometryn 4L may be used in field prior to planting cotton planted flat on beds or in furrows To avoid concentration of Prometryn 4L in the seed furrow do not make broadcast applications to fields to be planted to cotton in furrows deeper than 2 inches Band applications may be made to fields to be planted to cotton in furrows deeper than 2 inches but band width should not exceed the width of the bottom of the furrow If banded do not cover treated bands with soil while cultivating untreated row middles Cotton may be planted in soil previously treated with Prometryn 4L

Do not use on sand or loamy sand or shallow soils with caliche subsoils or in areas with caliche outcroppings

Rainfall or irrigation is needed following application to obtain weed control

Table A Preplant

Region	Soil Texture	Broadcast Rate Per Acre
Mid South & Southeast other than Mississippi River Delta in MS	Sandy loam	3 2 4 pts
	Silt and Clay loam	4 8 pts
	Sharkey clay	DO NOT USE
Mississippi River Delta in MS	Sandy loam	4 4 8 pts
	Silt and Clay loam	5 6 pts
	Sharkey clay	DO NOT USE
Blacklands of OK & TX TX Gulf Coast & TX Coastal Bend	Loam	2 4 pts
	Clay	4 8 pts
Rio Grande Valley of TX	Loam	3 2 pts
	Clay	4 8 pts
High Plains Rolling Plains and Edwards Plateau of TX Southwest TX and NM	Sandy Loamy sand	DO NOT USE
	Sandy loam	1 6 pts
	Loam Sandy clay loam	2 4 pts
	Other clay soils	3 2 pts
AZ and CA	DO NOT USE	

Rio Grande Valley of TX Furrow irrigation cotton If adequate rain does not fall soon after application a shallow cultivation will improve weed control

Precautions If aerially applied avoid spray overlap as crop injury may result Apply either as a preplant or preemergence (not both) If tank mixed follow precautions and label directions for use rates of product to be tank mixed

B PREPLANT INCORPORATION (Arizona California and New Mexico)

Apply Prometryn 4L at the appropriate rate shown in Table 1 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 rolling cultivators in tandem or bed conditioner

Table 1 Preplant Incorporation

Region	Soil Texture	Broadcast Rate Per Acre

AZ CA and NM	Sand Loamy sand	DO NOT USE
	Silt loam Clay	4 8 pts
AZ and CA only	Sandy loam	2 4 3 2 pts
NM only	Sandy loam Loams	3 2 pts

Restrictions To avoid crop injury (1) Do not use Prometryn 4L in cut areas of newly leveled fields in areas of excess salt or in areas where flooding over the beds is likely to occur (2) Do not plant cotton in tractor wheel depressions (3) On mulch planted cotton water back only after cotton seedlings are well established (4) In NM apply either preplant incorporated or preemergence (not both) see ***PREEMERGENCE*** *section (5) In CA do not incorporate with straight tined bed mulchers/conditioners (6) Avoid spray overlap if aerially applied*

C PREEMERGENCE

Apply at planting or shortly after planting at the appropriate rate shown in Table 2 Prometryn 4L may be used on cotton planted flat on beds or in furrows To avoid concentration of Prometryn 4L in the seed furrow do not make broadcast applications to cotton planted in furrows deeper than 2 inches Band applications may be made to cotton planted in furrows deeper than 2 inches but band width should not exceed the width of the bottom of the furrow If banded do not cover treated bands with soil while cultivating untreated row middles To avoid crop injury do not use on sand or loamy sand on shallow soils with caliche subsoils or in areas with caliche outcroppings

Rainfall or irrigation is needed following preemergence application to obtain weed control Cotton may be replanted in soil previously treated with Prometryn 4L Do not apply a second preemergence application of Prometryn 4L as injury may occur

Table 2 Preemergence

Region	**Soil Texture**	**Broadcast Rate Per Acre**
Mid South & Southeast other than Mississippi River Delta in MS	Sandy loam	3 2-4 pts
	Silt and Clay loam	4 8 pts
	Sharkey clay	5 6 pts
Mississippi River Delta in MS	Sandy loam	4 4 8 pts
	Silt and Clay loam	5 6 pts
	Sharkey clay	DO NOT USE
Blacklands of OK & TX TX Gulf Coast & TX Coastal Bend	Loam	2 4 pts
	Clay	4 8 pts
Rio Grande Valley of TX	Loam	3 2 pts
	Clay	4 8 pts
High Plains Rolling Plains and Edwards Plateau of TX Southwest TX and NM	Sand Loamy sand	DO NOT USE
	Sandy loam	1 6 pts
	Loam Sandy clay loam	2 4 pts
	Other clay soils	3 2 pts
AZ and CA	DO NOT USE	

Rio Grande Valley of TX Furrow irrigation cotton If adequate rain does not fall soon after application a shallow cultivation will improve weed control

NM Apply either preplant incorporated or preemergence (not both) see **PREPLANT INCORPORATION** section

Precautions If aerially applied avoid spray overlap as crop injury may result If tank mixed follow precautions and label directions for use rates of product to be tank mixed

D WINTER WEED CONTROL

Winter and Early Spring Weed Control in AL AR LA MO MS and TN

For control of winter and early spring germinating annual weeds (including henbit common chickweed, sibara and Palmer amaranth) apply 1 5 2 pts of Prometryn 4L after bedding (e g stale seedbed) from November 1 until 30 days before planting cotton Use the 2 0 pt /A rate for applications made in November or December Use the 1 5 pt /A rate for applications made from January 1 to 30 days before cotton planting Applications may be made before or after weeds emerge For control of emerged weeds preferably less than 2 inches in height add a suitable and approved crop oil concentrate or surfactant according to its label In the event weeds exceed 2

inches in height at the time of treatment apply Prometryn 4L in tank mixture with a contact herbicide (e g Gramoxone® Extra or Roundup®) Refer to the label of the contact herbicide for rates of application additives and for weed height restrictions at time of application

After applying Prometryn 4L do not mechanically till the seedbed prior to the cotton planting process as this will encourage germination of weed seeds

Follow with a preemergence herbicide program for cotton In the event that a subsequent application of Prometryn 4L is made do not exceed the total rate of Prometryn 4L that may be applied to a single cotton crop

Winter Weed Control In Texas
For control of winter weeds **only** such as henbit (purpletop) and seedling dock on fall bedded cotton land in the TX Gulf Coast and Blacklands of TX apply 1 2 1 6 pts of Prometryn 4L 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 Prometryn 4L will give effective control of emerged henbit if applied before it reaches 4 6 inches tall For postemergence henbit control add a suitable surfactant such as X 77® at 0 5% of spray volume or an emulsifiable oil at 1 0% of spray volume

Winter Weed Control In California
For control of winter weeds on fall bedded cotton land apply Prometryn 4L after bedding either preemergence or postemergence to weeds less than 2 inches tall Winter weeds controlled include

Chickweed	Filarees	Mustards	Redmaids	Sowthistle Annual
Fiddleneck	London Rocket	Pineappleweed	Shepherdspurse	

On sandy loam soil apply 3 2 pts /A on medium or fine soil apply 4 pts /A To avoid crop injury do not use on sand or loamy sand For postemergence weed control add a suitable surfactant such as X 77 at 0 5% of spray volume or an emulsifiable oil at 1 0% of spray volume Rainfall or sprinkler irrigation is necessary to activate the preemergence activity of Prometryn 4L

After preplant irrigation and before planting in the spring knock off the top ⅓ ½ of the seedbed Then make a preplant application of Prometryn 4L over the surface of the seedbed using a power tiller rolling cultivator or similar implement that will provide uniform incorporation Refer to Table 1 for preplant incorporation rates of Prometryn 4L in CA To avoid crop injury do not cultivate treated soil back toward the cotton until after cotton emergence and just before the first irrigation

Precautions Allow a minimum of 21 days between fallow application and preemergence application of Prometryn 4L or other herbicides with similar chemistry such as Caparol® (prometryn) Cotoran® (fluometuron) or diuron Treatment intervals of less than 21 days can cause crop injury To avoid crop injury do not use Prometryn 4L for winter weed control in areas of excess salt or calcareous soil If aerially applied avoid spray overlap as crop injury may result

E POSTEMERGENCE DIRECTED
Be especially careful when applying Prometryn 4L postemergence 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 cotton 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 if leaf contact cannot be avoided merely by directing the spray Apply only when all cotton plants have exceeded the minimum recommended height shown in Tables 3 and 4 Apply to level well prepared surfaces such as relatively clod free beds made with bed shapers

To avoid crop injury do not apply to furrow planted cotton until furrows are leveled (plowed in) Do not treat cotton under stress from drought cultivator damage or fertilizer application

When applying to emerged weeds add 2 qts of surfactant per 100 gals of spray mixture Use a surfactant that is compatible with Prometryn 4L when applied in cotton and is approved by EPA for use on food and feed crops Examples include X 77 Tronic and Triton

Restriction Do not apply aerially

Chemical Hoe (Emerged Weeds Only) Apply Prometryn 4L at the appropriate rate in Table 3 two or three times if necessary In cotton 3 6 inches tall be extremely careful to avoid spray contact with cot on leaves by applying Prometryn 4L with a precision applicator equipped with fenders or shields such as Bell Row Shield

Dickey Fenders or W&A Fenders In cotton less than 10 inches tall apply only if cotton is bed or flat planted Do not apply aerially

Table 3 Chemical Hoe

Height of Cotton and Area of Use	Height of Weeds	Broadcast Rate Per Acre
3 to 6 inches (AR LA MO MS TN and TX)	less than 1 inch	1 pt
6 or more inches (All regions)	less than 2 inches	1 1 3 pts

Adjust appropriately for treatment band width never apply Prometryn 4L over the top or in such a manner as to contact cotton foliage as injury may occur

Lay by (Emerged Weeds and Germinating Weeds) Apply Prometryn 4L at the appropriate rate in Table 4 once per season when cotton is at least 12 inches tall (18 inches where flood nozzles are used in Arizona and California) Apply before weeds are 2 inches tall

Table 4 Lay by (Cotton at least 12 inches tall)

Region	Soil Texture	Broadcast Rate Per Acre
Mid South and Southeast	Sandy	2 4 pts
	Loam	2 8 pts
	Clay	3 2 pts
Blacklands of OK and TX	Loam	1 6 pts
	Clay	3 2 pts
High Plains of NM and TX	Sandy	1 6 pts
	Loam and Clay	2 4 pts
Southwest TX	Loam	2 4 pts
	Clay	3 2 pts
Rio Grande Valley of TX	DO NOT USE	
AZ and CA (Do not use in the Coachella Valley)	Sand and Loamy sand	DO NOT USE
	Sandy loam	2 4 3 2 pts
	Loam	3 2 pts

Adjust appropriately for treatment band width never apply Prometryn 4L over the top or in such a manner as to contact cotton foliage as injury may occur Do not apply aerially

Rotational Crops The following vegetable and cover crops may be planted in the fall when Prometryn 4L was applied on cotton by no more than one of these methods that year preplant incorporated preemergence or only one chemical hoe treatment Where lay by or multiple applications are made do not plant rotational crops until the following year as indicated

Vegetables
Cabbage okra peas and sweet corn
Onions and red beets may not be planted within 8 months of applying Prometryn 4L
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 AZ and CA and spring seeded vegetables in the Rio Grande Valley of TX should not be planted until after April 1

PROMETRYN 4L COMBINATIONS FOR COTTON

PROWL® 3 3 EC (AZ CA NM AND THE UPPER AND LOWER EL PASO VALLEY OF TX)

This preplant incorporated tank mixture controls all weeds listed on this label and on the Prowl cotton label Apply prior to listing or over partially finished or finished beds and incorporate immediately Refer to the Prowl 3 3 EC label for specific mixing spraying and incorporation methods Continuous agitation in the spray tank is required to keep the material in suspension

Apply the tank mixture at the appropriate rates from Table 5

Table 5 Preplant Incorporated Tank Mixture with Prowl 3 3 EC

Soil Texture	Broadcast Rate Per Acre	
	Prowl 3 3 EC	Prometryn 4L

Sand Loamy sand	DO NOT USE	
Sandy loam	1 1 5 pts	2 4 3 2 pts
Loam	1 5 2 pts	3 2 pts
Silt loam Silt Sandy clay loam	1 5 2 pts	3 2 4 8 pts
Clay loam Silty clay loam 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 3 3 EC for heavy clay soils

Restrictions To avoid crop injury (1) 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 established

Note Do not feed treated forage to livestock or graze treated areas or illegal residues may result

Rotational Crops If crop treated with Prometryn 4L and Prowl 3 3 EC is lost cotton may be replanted Do not rework the soil Refer to the Prowl label and the **COTTON** section of this label for rotational crop restrictions

TRIFLURALIN TANK MIXTURE (AZ CA NM AND THE UPPER AND LOWER EL PASO VALLEY OF TX)
This combination controls weeds listed on this label and on Trifluralin HFP labels This combination also controls shallow germinating seedlings of cocklebur and coffeeweed

Follow procedures on the Trifluralin HFP labels for soil preparation and incorporation Apply the tank mix combination to the flat soil before disking

Pour Prometryn 4L directly into spray tank ½ ¾ full of water allow it to disperse with agitation add Trifluralin HFP and then add the rest of the water Under conditions of very soft water and low spray volume (5 10 gals /A) compatibility of Prometryn 4L + Trifluralin HFP may be improved by adding the Trifluralin HFP first agitate and then add the Prometryn 4L Continuous agitation in the spray tank is required to keep the material in suspension Apply the tank mixture at the appropriate rates from Table 6

Table 6 Tank Mixture with Trifluralin HFP

Soil Texture	**Broadcast Rate Per Acre**	
	Trifluralin HFP	**Prometryn 4L**
Sand Loamy sand	DO NOT USE	
Sandy loam	1 pt	2 4 3 2 pts
Medium soils	1 5 pts	4 pts
Fine soils	2 pts	4 pts
Muck or Peat	DO NOT USE	

Use less than 3 2 pts /A only in AZ and CA

Restrictions To avoid crop injury (1) 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) On mulch planted cotton water back only after cotton seedlings are well established

Note Do not feed treated forage to livestock or graze treated areas or illegal residues may result

Rotational Crops Cabbage okra peas and leafy petiole crops may be planted in the fall after a spring application of Trifluralin HFP + Prometryn 4L Onions and red beets may not be planted within 8 months of applying Prometryn 4L Winter barley rye and wheat can be planted in the fall if they are plowed down and not used for food or feed Refer to the Trifluralin HFP label for other directions and precautions

Trifluralin HFP Split Application (AZ and CA)
Apply a preplant incorporated application of Trifluralin HFP as directed on that label except use the appropriate rate from Table 6 Do not apply Trifluralin HFP before January 1 Follow at planting or just before planting with a preplant incorporated treatment of Prometryn 4L as directed in the **COTTON** section of this label except use the appropriate rate from Table 6

MSMA

For faster knockdown of emerged weeds controlled by Prometryn 4L alone apply 1 1 3 pts of Prometryn 4L plus 2 lbs active ingredient of MSMA per acre following the same directions precautions and limitations as given on this label for Prometryn 4L applied alone postemergence directed (chemical hoe) Do not apply after first bloom

Several formulations of MSMA are available under various trade names for several manufacturers Observe the directions limitations and precautions on the label of the product used

COTTON WITH THE ROUNDUP READY® GENE

A Postemergence Directed Applications to Cotton 6 Inches Tall up to Lay by (Not for Use in CA or AZ)
To control weeds listed on the Prometryn 4L label apply Prometryn 4L at 1 1 3 pts /A tank mixed with the labeled rate of Roundup Ultra® to cotton with the Roundup Ready gene once the cotton is 6 inches tall or taller and weeds to be controlled by Prometryn 4L are less than 2 inches tall Applications must be made with a shielded or hooded sprayer to avoid contact of the spray to cotton leaves Spray which contacts cotton leaves may cause injury Do not apply to cotton planted in furrows Apply during calm periods to prevent drift Do not use on sand or loamy sand soils in CA AZ or in Gaines County TX Do not use in the Coachella Valley of CA

Refer to the Roundup Ultra label for further restrictions precautions and limitations

B Postemergence Directed Applications to Cotton at Lay by (12 Inches or Taller)
To control weeds listed on the Prometryn 4L label apply Prometryn 4L tank mixed with Roundup Ultra at the appropriate rate as shown in Table 4 Lay by to cotton with the Roundup Ready gene once the cotton is 12 inches tall or taller and weeds to be controlled by Prometryn 4L are less than 2 inches tall Applications must be made with a shielded or hooded sprayer to avoid contact of the spray to cotton leaves Spray which contacts cotton leaves may cause injury Apply during calm periods to prevent drift Do not use on sand or loamy sand soils in Gaines County TX

Refer to the Roundup Ultra label for further restrictions precautions and limitations

LEAFY PETIOLE CROPS (CARDOON CELERY CHINESE CELERY CELTUCE FLORENCE FENNEL RHUBARB SWISS CHARD)

SEEDBEDS (Florida)
Broadcast 1 2–1 6 pts in a minimum of 20 gals of water per acre after the crop has 2 5 true leaves Application may be made over the crop Apply only after seedbed covers have been removed from seedbeds for at least one week Apply only once per year to seedbeds

DIRECT SEEDED (California) and Arizona)
Apply Prometryn 4L 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 2 4 3 2 pts per acre at planting or shortly after planting before crop emerges

Postemergence Broadcast 1 6 2 pts per acre after the crop has 2 5 true leaves Application may be made over the crop Apply before weeds are 2 inches tall

Restrictions Do not apply aerially To avoid injury to direct seeded crops (1) Make either one preemergence or one postemergence application (not both) per crop (2) Do not use on sand or loamy sand (3) Do not apply ifthe crop is under water stress (4) Do not apply postemergence treatments of Prometryn 4L with other pesticides Apply only after foliar applications of other pesticides are dry (5) Do not apply within two weeks after an application of an herbicidal oil such as carrot oil

TRANSPLANTS
Apply one application at the appropriate rate from Table 7 in a minimum of 20 gals of water per acre during the 2 to 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 crop Apply before weeds are 2 inches tall

Table 7 Transplanted Leafy Petioles

State	Soil	Broadcast Rate Per Acre
FL	Sandy or Muck	1 6 3 2 pts

CA ~~and~~ TX and AZ	Coarse textured	2 3 2 pts
	Fine textured	3 2 4 pts
MI and OH	Fine textured or Muck	2 4 pts
WI	Fine textured	3 2 4 pts
HI	Coarse textured	3 2 4 8 pts
	Fine textured	4 8 6 4 pts

Rotational Crops The following crops may be seeded 5 months after applying no more than 4 pts Prometryn 4L per acre on leafy petioles cabbage corn cotton peas and leafy petioles Onions and red beets may not be planted within 8 months of applying Prometryn 4L All other crops may be planted 12 months after applying Prometryn 4L

CARROTS

Prometryn 4L may be applied for the control of weeds in carrot production

Make up to three applications at the rate of 2 – 4 pts (1 – 2 lb active ingredient) per acre per application (a maximum of one preemergence and two post emergence applications per crop cycle) Make uniform applications of the herbicide in a minimum of 20 gallons of water per acre A surfactant may be used as part of the tank mix

Rotational Crops The following crops may be seeded 5 months after applying no more than 4 pts Prometryn 4L per acre on leafy petioles cabbage corn cotton peas and leafy petioles Onions and red beets may not be planted within 8 months of applying Prometryn 4L All other crops may be planted 12 months after applying Prometryn 4L

Restrictions Do not apply past the 6 leaf stage Do not apply within 30 days of harvest Do not exceed 6 lb active ingredient per acre per crop cycle Do not apply aerially

CELERIAC

Prometryn 4L may be applied for the control of weeds in celeriac production

Make one postemergence broadcast application at the rate of up to 8 pts (4 lbs active ingredient) per acre to celeriac up to the 6 to 8 leaf stage Make uniform applications of the herbicide in a minimum of 10 gallons of water per acre

Rotational Crops The following crops may be seeded 5 months after applying no more than 4 pts Prometryn 4L per acre on leafy petioles cabbage corn cotton peas and leafy petioles Onions and red beets may not be planted within 8 months of applying Prometryn 4L All other crops may be planted 12 months after applying Prometryn 4L

Restrictions Do not apply within 60 days of harvest Do not exceed 4 lb active ingredient per acre per crop cycle Do not apply aerially

CILANTRO

Prometryn 4L may be applied for the control of weeds in cilantro production

Make one preemergence broadcast application after planting but before crop emergence at a rate of up to 3 2 pts (1 6 lbs active ingredient) per acre Make uniform applications of the herbicide in a minimum of 10 gallons of water per acre

Rotational Crops The following crops may be seeded 5 months after applying no more than 4 pts Prometryn 4L per acre on leafy petioles cabbage corn cotton peas and leafy petioles Onions and red beets may not be planted within 8 months of applying Prometryn 4L All other crops may be planted 12 months after applying Prometryn 4L

Restrictions Do not apply within 30 days of harvest Do not exceed 1 6 lb active ingredient per acre per crop cycle Do not apply aerially

DILL

(California Only)

Make one preemergence or one postemergence application at the rate of 3 2 pts per acre in a minimum of 20 gal of water per acre Apply postemergence treatments before weeds are two inches tall Do not harvest within 48 days of application

Restrictions Do not apply aerially To avoid injury to dill 1) Make either one preemergence or one postemergence application (not both) per dill crop (2) Use on sand or loamy sand may cause crop injury (3) Do not apply if dill is under water stress (4) Do not apply preemergence treatments of Prometryn 4L with other pesticides Apply only after foliar applications of other pesticides are dry (5) Do not apply within two weeks after an application of a herbicidal oil such as carrot oil

Rotational Crops The following crops may be seeded 5 months after applying Prometryn 4L per acre on dill cabbage corn cotton peas and leafy petioles Onions and red beets may not be planted within 8 months of applying Prometryn 4L All other crops may be planted 12 months after applying Prometryn 4L

OKRA

Prometryn 4L may be applied for the control of weeds in okra production

Make one preemergence broadcast application at 3 pts (1 5 lbs active ingredient) per acre after planting and before crop emergence Use 20 to 40 gallons of spray per acre

OR

Make two applications at 1 5 pts (0 75 lbs active ingredient) per acre per application Make the first preemergence broadcast application after planting but before crop emergence Make the second post directed application when okra plants are at the 7 9 leaf stage Make both applications in 20 to 40 gallons of spray per acre

Rotational Crops The following crops may be seeded 5 months after applying no more than 4 pts Prometryn 4L per acre on leafy petioles cabbage corn cotton peas and leafy petioles Onions and red beets may not be planted within 8 months of applying Prometryn 4L All other crops may be planted 12 months after applying Prometryn 4L

Restrictions Do not apply past the 7 9 leaf stage Do not exceed 1 5 lb active ingredient per acre per crop cycle Do not apply aerially

PARSLEY

(California Only)

Make one preemergence broadcast application at the rate of 2 to 4 pints (1 to 2 lbs active ingredient) per acre in a minimum of 20 gallons of water up to 14 days after planting but before parsley emerges 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

Restrictions Do not apply aerially To avoid injury to parsley 1) Do not use on sand or loamy sand soils (2) Do not apply if parsley is under water stress (3) Do not apply within two weeks after an application of a herbicidal oil such as carrot oil (4) Make one preemergence application per parsley crop (5) Do not apply preemergence treatments of Prometryn 4L with other pesticides Apply only after foliar applications of other pesticides are dry

Rotational Crops The following crops may be seeded 5 months after applying Prometryn 4L per acre on parsley cabbage corn cotton peas and leafy petiole crop subgroup 4B Onions and red beets may not be planted within 8 months of applying Prometryn 4L All other crops may be planted 12 months after applying Prometryn 4L

PIGEON PEAS

(Puerto Rico Only)

For preemeergence control of annual weeds such as horse purslane junglerice wild spider flower jimsonweed spurge pigweed and Florida pusley apply 4 pts of Prometryn 4L per acre on loam soils or 6 pts per acre on clay soils Apply at planting or immediately after planting before the crop or weeds emerge

Restrictions Do not apply aerially To avoid crop injury (1) Make only one application per year (2) Do not use on sand or loamy sand soils

Note Do not graze or feed forage or hay to livestock or illegal residues may result

Rotational Crops The following crops may be seeded 5 months after applying no more than 4 pts of Prometryn 4L per acre on pigeon peas cabbage corn peas and leafy petioles Onions and red beets may not be planted within 8 months of applying Prometryn 4L All other crops may be planted 12 months after applying Prometryn 4L

APPLICATION THROUGH IRRIGATION SYSTEMS – CHEMIGATION FOR PREEMERGENCE APPLICATION TO COTTON AND PREEMERGENCE OR POSTEMERGENCE APPLICATION TO LEAFY PETIOLE CROP SUBGROUP 4B ONLY

Apply this product only through sprinkler including center pivot lateral move end tow side (wheel) roll traveler big gun solid set irrigation systems Do not apply this product through any other type of irrigation system

Crop injury lack of effectiveness or illegal pesticide residues in the crop can result from nonuniform distribution of treated water

If you have questions about calibration you should contact State Extension Service specialists equipment manufacturers or other experts

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

If the chemigation system is connected to a public water supply the following conditions must also be met

- Public water systems means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year
- Chemigation systems connected to public water systems must contain a functional reduced pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from a point of pesticide introduction As an option to the RPZ the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe
- The pesticide injection pipeline must contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shutdown
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump when the water pressure decreases to the point where pesticide distribution is adversely affected
- Systems must use a metering pump such as a positive displacement injection pump (e g diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
- Upon completion of herbicide application remove scale pesticide residues and other foreign matter from the supply tank and entire injector system Flush thoroughly with clean water

SPRINKLER CHEMIGATION

To apply a pesticide using sprinkler chemigation the chemigation system must meet the following specifications

- The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow

- The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump
- The pesticide injection pipeline must also contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected
- Systems must use a metering pump such as a positive displacement injection pump (e g diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
- Do not apply when wind speed favors drift beyond the area intended for treatment

APPLICATION PROCEDURES

Mix in clean supply tank the directed amount of this product for acreage to be covered and needed quantity of water

This product should not be tank mixed with other pesticides surfactants or fertilizers unless prior use has shown the combination noninjurious under your conditions of use

Follow precautionary statements and directions for all tank mix products

Provide constant mechanical agitation in supply tank to keep this product suspended throughout application operations

On all crops use sufficient gallonage of water to obtain thorough and uniform coverage but not cause runoff or excessive leaching This will vary depending on equipment pest problem and stage of crop growth Application of more or less than optimal quantity of water may result in decreased chemical performance crop injury or illegal pesticide residues

Meter this product into the irrigation water uniformly during the period of operation

Do not overlap application Follow directed label rates application timing and other directions precautions and restrictions for crop being treated

If sprinkler irrigation is intended to replace incorporation use sufficient water to activate herbicide The exact amount is highly dependent on moisture conditions and soil type however ¼ to ½ acre inch may be appropriate as a starting point Pre irrigation may be beneficial under dry conditions Additional irrigation may be needed following application if rainfall is scant

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

PESTICIDE STORAGE Store in original container tightly closed in a safe place

PESTICIDE DISPOSAL Pesticide wastes are toxic Improper disposal of unused pesticide spray mixture or rinse water is a violation of federal law If these wastes cannot be used 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 in proper disposal methods

CONTAINER DISPOSAL

Nonrefillable Container (five gallons or less) Nonrefillable container Do not reuse or refill this container Offer for recycling if available Clean container promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container ¼ full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times

Nonrefillable Container (greater than five gallons) Nonrefillable container Do not reuse or refill this container Offer for recycling if available Clean container promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container ¼ full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times

Refillable Container Refillable container Refill this container with prometryn only Do not reuse this container for any other purpose Cleaning the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller To clean the container before final disposal empty the remaining contents from this container into application equipment or mix tank Fill the container about 10 percent full with water Agitate vigorously or recirculate water with the pump for 2 minutes Pour or pump rinsate into application equipment or rinsate collection system Repeat this rinsing procedure two more times

FOR 24 HOUR EMERGENCY ASSISTANCE (SPILL LEAK OR FIRE) CALL INFOTRAC AT (800) 535 5053

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use conditions of warranties and limitations of liability before using this product If terms are not acceptable return the unopened product container at once

By using this product user or buyer accepts the following **CONDITIONS DISCLAIMER OF WARRANTIES** and **LIMITATIONS OF LIABILITY**

CONDITIONS The directions for use of this product are believed to be adequate and must be followed carefully However it is impossible to eliminate all risks associated with the use of this product Crop injury ineffectiveness or other unintended consequences may result because of such factors as weather conditions presence of other materials or the manner of use or application all of which are beyond the control of Makhteshim Agan of North America Inc All such risks shall be assumed by the user or buyer

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