

SALE, USE AND DISTRIBUTION OF THIS PRODUCT IN NASSAU AND SUFFOLK COUNTIES IN THE STATE OF NEW YORK IS PROHIBITED

This product controls a broad spectrum of annual grasses and select broadleaf weeds when applied as a pre-emergence, post-emergence, pre-plant surface-applied or pre-plant incorporated treatment on labeled crops.

ACTIVE INGREDIENT:

A CONTRACTOR OF THE CONTRACTOR	
S-metolachlor (CAS No. 87392-12-9)	87.3%
OTHER INGREDIENTS:	12.7%
TOTAL:	100.0%
Moccasin Herbicide is an Emulsifiable Concentrate (EC) containing 8.0 lbs of active ingredient per gallon.	

EPA Reg. No. 70506-323

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID		
lf on skin	 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. 	
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 the poison control center or doctor. Do not give anything 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. 	
 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. 		
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical treatment, call the Rocky Mountain Poison Control Center at 1-866-673-6671.		

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

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HERBICIDE	NET CONTENTS:	GALLONS	(l) UPI

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before drinking, chewing gum, using tobacco, or using the toilet.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or Viton®
- · Shoes plus socks
- Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements

Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)]. When using the closed system, the mixers' and loaders' PPE requirements may be reduced or modified as specified in the WPS.

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.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

GROUND WATER ADVISORY

The active ingredient in Moccasin Herbicide has the potential to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

SURFACE WATER ADVISORY

The active ingredient in Moccasin Herbicide has the potential to contaminate surface water through ground spray drift. Under some conditions, the active ingredient may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

MIXING/LOADING INSTRUCTIONS

Care must be taken when using this product to prevent back-siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates. Check-valves or anti-siphoning devices must be used on all mixing and/or irrigation equipment.

This product must not be mixed or loaded within 50 feet of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product must not be mixed/loaded or used within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 1.10% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site.

DIRECTIONS FOR USE

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

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of UNITED PHOSPHORUS, INC. or Seller. To the extent consistent with applicable law, Buyer and User agree to hold UNITED PHOSPHORUS, INC. and Seller harmless for any claims relating to such factors. Moccasin Herbicide must be used only in accordance with directions on this

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 State or Tribal 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 the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

For early entry into 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, wear:

Coveralls

label.

- Chemical-resistant gloves, such as barrier laminate or Viton
- Shoes plus socks

Sale, use and distribution of this product in Nassau and Suffolk Counties in the State of New York is prohibited.

PRODUCT INFORMATION

Moccasin Herbicide can be used on the following crops to control annual grasses and select broadleaf weeds when applied using an application method as described in each crop section:

Beans Soybean (immature seed)

Corn Soybean

Cotton Sorghum for grain or forage

Grasses grown for seed
Lentils
Sunflower
Peanuts
Tomatoes
Peas
Horseradish
Potatoes
Pumpkin
Safflower
Rhubarb

NOTE: Injury may occur following the use of Moccasin Herbicide under abnormally high soil moisture conditions during early development of the crop.

USE RESTRICTIONS

DO NOT apply under windy conditions.

DO NOT apply if conditions are conducive to wind erosion or runoff and may lead to soil containing this product reaching non-target areas.

DO NOT use in greenhouses or other enclosed structures.

DO NOT use in nurseries, turf, or landscape plantings.

Moccasin Herbicide may be tank mixed with products that are registered for use in the state where this product is being applied. The most restrictive combination of instructions, limitations and other restrictions from all the products being applied must be followed.

When tank mixing with atrazine, rate restrictions for atrazine must be implemented within specific geographic areas and deviation from these State imposed restrictions are a violation. Prior to application, consult the agency responsible for pesticide regulation in your State to determine if any restrictions apply in your desired application area.

NON-TARGET DRIFT AND RUNOFF

In order to minimize the possibility of runoff or wind erosion causing movement of this product to non-target areas, do the following:

- When conditions for wind erosion exist, DO NOT apply this product to light sandy soils or soils that have a powder dry surface. If these conditions exist, they should be mitigated by irrigation or rainfall prior to application.
- DO NOT apply this product to highly compacted or paved surfaces or any other surfaces that are impervious.
- Non-target crops must NOT be exposed to the furrow or first flood irrigation tailwater from fields treated with this product. This restriction does not apply if a minimum of 1/2 inch of rain occurs prior to the first irrigation after application.

SOIL TEXTURE CLASSIFICATION AND EFFECT ON APPLICATION RATES

In the instructions that follow, application rates may depend on the texture of the soil to which this product is being applied. Use the following information to assign your soil texture to a classification:

Coarse	Sand, Loamy Sand, Sandy Loam	
Medium	Loam, Silt Loam, Silt	
Fine	Sandy Clay Loam, Silty Clay Loam, Clay Loam, Sandy Clay, Silty Clay, Clay	

Soil texture impacts the application rate as follows: For soils that have low organic matter content or are coarser-textured use the lower rates of the range listed, and for soils with high organic matter content or that are finer-textured use the higher rates of the range listed in the application instructions.

APPLICATION INSTRUCTIONS

This product may be used for pre-emergence applications either by itself or tank mixed with products as specified in this label. This product may also be applied after pre-plant incorporated herbicides as long as doing so is not forbidden in the pre-plant herbicide label. Avoid spray overlap, as crop injury may result.

Thoroughly clean sprayer or other application devices before using. Dispose of cleaning solution in a manner that is responsible. Do not use a sprayer or application equipment contaminated with any other materials, or crop damage or clogging of the application device may result.

STAND-ALONE APPLICATION OF THIS PRODUCT

Weeds Controlled

This product is a **pre-emergent herbicide absorbed by weeds shortly after germination that inhibits weed root and shoot development**. Weeds that have already germinated should be controlled using a herbicide for post-emergent use, or through other means such as mechanical removal.

When this product is incorporated, the application depth should be less than 2-3 inches. Any subsequent tilling after incorporating this product, and prior to planting, must be less than the application depth or 2-3 inches.

Dry conditions after application may lead to poor weed control. If this occurs, weeds that develop should be cultivated.

Partial Weed Control

When describing weed control, this label may refer to "partial control" for certain weeds. Within the context of this label, "partial control" can mean either of the following:

- 1. control that is not consistent, and that may be good in some cases and poor in others; and/or,
- control that is consistent but not considered sufficient for commercial weed control.

There may be several reasons for partial weed control including plant type and climatic conditions. To help improve control of weeds listed as partially controlled in the following table, you may try the following:

 Destroying weeds that are germinating or already emerged by thorough tilling and then planting the crop immediately into moist soil. If this product will be used pre-emergence, it must be applied either at, or immediately after, planting.

If possible, within two days of application of Moccasin Herbicide sprinkle irrigate using 1/2-1 inch of water using lower irrigation rates on soils that are coarse-textured and the higher rates on soils that are fine-textured. If it is not possible to irrigate and no precipitation occurs within two days of application, there may be decreased control of weeds in which case a shallow, uniform cultivation should be performed immediately upon weed germination.

Refer to the **CENTER PIVOT IRRIGATION** section for information on applying this product using center pivot irrigation.

This product will provide the level of control listed for the following weeds:

BROADLEAF		
Control		
Amaranth, Palmer	Amaranthus palmeri	
Amaranth, Powell	Amaranthus powellii	
Carpetweed	Mollugo verticillata	
Galinsoga, Hairy	Galinsoga quadriradiata	
Galinsoga, Smallflower	Galinsoga parviflora	
Nightshade, Eastern Black	Solanum ptychanthum	
Pigweed, Prostrate	Amaranthus blitoides	
Pigweed, Redroot	Amaranthus retroflexus	
Pigweed, Smooth	Amaranthus hybridus	
Pigweed, Tumble	Amaranthus albus	
Pusley, Florida	Richardia scabra	
Spiderwort, Tropical	Commelina benghalensis	
Waterhemp, Common	Amaranthus rudis	
Waterhemp, Tall	Amaranthus tuberculatus	

BROADLEAF	
Partial Control	
Beggarweed, Florida	Desmodium tortuosum
Eclipta	Eclipta prostrata
Nightshade, Hairy	Solanum physalifolium
Purslane, Common	Portulaca oleracea

GRASS	
Control	
Barnyardgrass	Echinochloa crus-galli
Crabgrass, Large	Digitaria ischaemum
Crabgrass, Smooth	Digitaria sanguinalis
Crowfootgrass	Dactyloctenium aegyptium
Cupgrass, Prairie	Eriochloa contracta
Cupgrass, Southwestern	Eriochloa acuminate
Foxtail, Bristly	Setaria verticillata
Foxtail, Giant	Setaria faberi
Foxtail, Green	Setaria viridis
Foxtail, Millet	Setaria italic
Foxtail, Yellow	Setaria pumila
Goosegrass	Eleusine indica
Panicum, Fall	Panicum dichotomiflorum
Rice, Red	Oryza punctate
Ryegrass, Italian	Lolium multiflorum
Signalgrass, Broadleaf	Urochloa platyphylla
Witchgrass	Panicum capillare

GRASS	
Partial Control	
Cupgrass, Woolly ¹	Eriochloa villosa
Johnsongrass (seedling)	Sorghum halepense
Millet, Wild-proso ¹	Panicum miliaceum
Panicum, Texas	Panicum texanum
Sandbur, Field	Cenchrus spinifex
Sandbur, Southern	Cenchrus echinatus
Shattercane / Sorghum (Volunteer)	Sorghum bicolor

¹ Refer to the **CORN** section of this label for additional use directions.

SEDGE	
Control	
Nutsedge, Yellow	Cyperus esculentus

WEED RESISTANCE MANAGEMENT

Moccasin Herbicide contains the active ingredient *S-metolachlor* which inhibits the formation of very long chain fatty acids (VLCFA, Site of Action Group 15). Some naturally occurring weed populations have been identified as resistant to Group 15 herbicides. Selection of resistant biotypes, through repeated use of these herbicides or lower than recommended use rates in the same field, may result in weed control failures. A resistant biotype may be present where poor performance cannot be attributed to adverse environmental conditions or improper application methods. If resistance is suspected, contact your local UPI representative and/or agricultural advisor for assistance.

- Employ integrated weed management practices. Use multiple herbicide sites of action with overlapping weed spectrums in rotation, sequences, or mixtures.
- Use the full herbicide rate and proper application timing for the hardest to control weed species present in the field.
- Scout fields after herbicide application to ensure control has been achieved.
 Avoid allowing weeds to reproduce by seed or to proliferate vegetatively.
- Monitor site and clean equipment between sites.
- Start with a clean field and control weeds early by using a burndown treatment or tillage in combination with a pre-emergence residual herbicide as appropriate.
- Use cultural practices such as cultivation and crop rotation, where appropriate.
- Use good agronomic principles that enhance crop competitiveness.

PRE-PLANT AND ROTATIONAL CROPS

Replanted Crops

Any crop listed in this or a supplemental Moccasin Herbicide label may be immediately replanted as long as the originally applied rate is not more than the rate listed for the replacement crop. In cases where the initial application was a banded treatment and the replacement crop is planted in the center of the untreated area between the bands, a second banded application may be made at the rate recommended for the replacement crop as long as there is no overlap between the first and second application bands.

Directions for Rotational Crops

Any food or feed crops not listed below must NOT be planted within 12 months of the last application of this product.

Crop(s)	Replant Interval
Tobacco, Buckwheat, Rice	The spring following the last treatment
Barley, Oats, Rye, Wheat	4.5 months
Alfalfa	4.0 months
Clover	9.0 months

In order to make a replant application of this product, the previous crop must have had applied 1.9 pounds active ingredient, or less, of *S-metolachlor* (1.9 pints or less) per acre, and the previous crop must not have had a lay-by or other post-emergence application of this product.

Note: If rotating to a crop listed in one of the crop groupings below within 60 days of last application, injury to the new crop may result. Also, if the amount of this product applied to the previous crop was more than listed below, the crop must not be planted until the following spring.

Amount of Moccasin herbicide Applied Previously (Pints per Acre)	Crops that may be Planted 60 days after the Last Application of Moccasin Herbicide
	Crop Subgroup 1B – Root Vegetables Arracacha; Arrowroot; Artichoke, Chinese & Jerusalem; Canna (edible); Cassava, Bitter and Sweet; Chayote (root); Chufa; Dasheen (Taro); Ginger; Leren; Potato; Sweet Potato; Tanier; Tumeric; Yam, Bean & True
	Crop Subgroup 3 – Bulb Vegetables
≤ 1.9 pts/A	(if harvested dry) Garlic; Great-headed Garlic; Leek, Dry Bulb & Green Onion; Welsh Onion; Shallot
	Crop Subgroup 4B – Leaf Petiole Vegetables Cardoon; Celery; Leek, Chinese Celery; Celtuce, Florence; Fennel; Rhubarb; Swiss Chard
	Crop Subgroup 5A – Head and Stem Brassica Vegetables
	Broccoli; Chinese Broccoli; Brussel Sprouts; Cabbage; Chinese (Napa) Cabbage; Chinese Mustard; Cauliflower; Cavalo Broccolo; Kohlrabi
	All crops listed above plus:
	Crop Group 8 Fruiting Vegetables (except Cucurbits)
≤ 1.6 pts/A	Eggplant; Ground Cherry (<i>Physalis</i> spp.); Pepino; Peppers, Bell, Chili, Cooking, Pimento & Sweet; Tomatillo & Tomato
	All crops listed above plus:
≤ 1.3 pts/A	Crop Subgroup 1B Root Vegetables Garden Beet; Burdock (edible); Carrot; Celeriac; Chervil, Turnip-rooted; Chicory; Ginseng; Horseradish; Parsley, Turnip-rooted; Parsnip; Radish; Oriental Radish; Rutabaga; Salsify; Black Salsify; Spanish Salsify; Skirret; Turnip
	Crop Group 3 Bulb Vegetables
	(if harvested green) Garlic, Great-headed Garlic; Leek; Onion, Green & Welsh; Shallot; Winter Squash (including Pumpkins)

NOTE: A second application of S-metolachlor to the crops in the above table must NOT be made within 60 days of the original application.

APPLICATION PROCEDURES

Application Timing

See CROP USE DIRECTIONS for crop specific application timing.

PRE-PLANT SURFACE-APPLIED

For certain crops grown in minimum- or no-tillage systems, Moccasin Herbicide may be applied either alone or tank mixed with other herbicides up to 45 days prior to planting.

For applications made 30-45 days prior to planting, make only split applications using 2/3 the listed broadcast rate in the initial application and the remaining 1/3 when planting.

Treatments made less than 30 days prior to planting Moccasin Herbicide may be applied as either a single or split application. Applicators should refer to the **CROP USE DIRECTIONS** to determine if these kinds of early pre-plant surface applications may be made for the specific crop.

Tank mixing this product with a contact herbicide such as *paraquat*, *glyphosate* or *glufosinate* is recommended if weeds are already present when making the application. The most restrictive combination of instructions, precautions and restrictions must be followed from all of the tank mix partners when tank mixing multiple products.

For best results, when planting the treated soil must not be moved out of the rows and untreated soil must not be moved into the rows.

PRE-PLANT INCORPORATED

When furrow irrigation is being used or dry weather is expected after the treatment, apply Moccasin Herbicide within 14 days of planting and incorporate into the top 2 inches of soil using equipment that will provide uniform incorporation such as a harrow, rolling cultivator or finishing disk. If crops are planted in beds, application should be made after the beds have been formed, unless otherwise specified in the **CROP USE DIRECTIONS**.

PRE-EMERGENCE

Either apply this product at planting prior to weed emergence, or after planting prior to weed and crop emergence.

POST-EMERGENCE

This product does not control weeds that have already emerged. Weeds already present must be controlled by either using another herbicide or that use, or mechanical means.

APPLICATION PROCEDURES FOR SPECIFIC LOCATION, CROP AND/OR WEED SCENARIOS

CA Only (Corn, Safflower, Beans, Peas, and Lentils)

PRE-PLANT INCORPORATED

Apply this product either by itself or tank mixed with other products listed in this label, being sure to incorporate the application thoroughly to a depth of 4-6 inches. Cross tilling may be done to ensure thorough incorporation. The desired crop may be planted on flat surface or on beds, being sure that beds are formed only using treated soil. If treating preformed beds, incorporate this product to 2-4 inches deep being careful to keep the treated soil within the beds.

PRE-EMERGENCE

Apply this product after planting followed within 7-10 days with irrigation by sprinkler or flood.

Fall Application for Spring Weed Control in IA, MN, ND, SD, WI, and areas in NE and IL

For specific timing and application information, refer to the **CORN**; **SOYBEANS**; or **BEANS**, **PEAS**, **AND LENTILS** sections of this label.

DO NOT apply this product to frozen ground.

Apply this product to fields that will be planted to corn or soybeans the following spring with fine and/or medium-textured soils and more than 2.5%

organic matter. Tilling may be performed before or after treatment; however, if tilled after treatment do not incorporate deeper than 2-3 inches. If multiple applications are made in a single crop cycle, do not exceed the maximum total rate for the specific crop, or illegal residues may result.

Fall Application for Italian Ryegrass Control in Corn, Cotton, Sorghum (for Grain or Forage) and Soybean ONLY

For specific timing and application information, refer to the CORN; COTTON; SORGHUM (FOR GRAIN OR FORAGE) and SOYBEAN sections of this label.

DO NOT apply this product to frozen ground.

Moccasin Herbicide may be used to provide residual control of *glyphosate*-resistant Italian ryegrass (*Lolium multiflorum*) with a fall application of this product (between September 1 and December 1). Tillage may be performed prior to application. If planning to till after application, incorporate to a maximum depth of 2-3 inches. All crops listed in this label may be planted the spring following application. If multiple applications are made in a single crop cycle, do not exceed the maximum total rate for the specific crop, or illegal residues may result.

GROUND APPLICATIONS

Unless otherwise specified in the crop specific instructions, apply this product alone or in a tank mixture using ground equipment in a **minimum of 10 gallons of spray mixture per acre**. Be sure the sprayers will provide uniform coverage to the target areas only. If this product will be tank mixed with dry flowable (DF) or wettable powder (WP) formulations, the spray equipment should use strainers/screens that are 50-mesh or coarser. The application equipment should be thoroughly rinsed with clean water as soon as the application is completed.

The amount of herbicide required for a band treatment may be determined as follows:

Amount of Product per Acre = Broadcast Rate per Acre x Width of the Band in Inches Width of Row in Inches

Refer to the LOW CARRIER APPLICATION section for information on applying in lower volumes of carrier.

Refer to the **AERIAL APPLICATION** section for information specific to applications by air or center pivot systems.

Refer to the **DRY BULK GRANULAR FERTILIZERS** section for information on impregnating dry fertilizer.

SPRAY EQUIPMENT

In order to prevent possible crop damage or equipment malfunction, it is important that the equipment being used to apply this product be thoroughly cleaned prior to use. Any wastes resulting from cleaning must be disposed of responsibly in accordance with local regulations.

LOW CARRIER APPLICATION

For Broadcast Ground Application Only

ONLY use water as a carrier and apply in a minimum of 5 gallons of spray mixture per acre and a maximum speed of 15 mph when spraying. The equipment should be cleaned immediately after use using clean water.

Only spray equipment that provides uniform and accurate spray placement (such as Ag-Chem RoGator®, Hagie, John Deere Hi-Cycle™, Melroe Spra-Coupe, Tyler Patriot™, or Willmar Air Ride®) should be used to apply this product.

In-line strainers and suction screens that are 50-mesh should be used. In cases where the manufacturer of the spray equipment require 100-mesh tip screens be used with certain nozzles, you must use a pump that can generate enough agitation to keep the mixture suspended and also maintain 35-40 PSI of pressure at the nozzles.

Low Pressure Nozzles: Use of these nozzles will increase the accuracy of the spray placement and reduce drift. The manufacturer's instructions for sprayer setup must be followed for optimum performance and nozzle screens

should be used when instructed to do so by the manufacturer of the equipment. Low pressure nozzles should be aimed for 20 inch centers EXCEPT flooding types that should be placed on 40 inch centers. Angles of 80 or 110 degrees should be used for flat fan nozzles. The applicator must be sure to set devices that automatically control the rate of spray to provide the pressure and flow rates required by the low pressure nozzles.

AERIAL APPLICATION

Application of this product by air must NOT be made when conditions will prevent uniform coverage or promote spray drift. To reduce spray drift, apply when wind speed is less than 10 mph from a maximum height of 10 feet using low-drift nozzles and a maximum system pressure of 40 PSI.

This product may be applied by aircraft in a **minimum total water volume of 2.0 gallons per acre** either by itself or tank mixed with Atrazine, Balan®, Lorox®, Prowl®, Satellite®, Treflan® or TriCor®. To avoid spray drift potentially damaging non-target sensitive plants that are off-site, do not apply this product tank mixed with Lorox or TriCor within 300 feet upwind of sensitive plants, and do not apply this product by itself or tank mixed with Atrazine within 400 feet upwind of the sensitive plants.

Aerial Drift Management

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.

The following drift management requirements must be followed to avoid offtarget drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses, or to applications using dry formulations.

- 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.

Where states have more stringent regulations, they must be observed.

Ensure that the applicator is familiar with and takes into account the information covered in the **AERIAL DRIFT REDUCTION ADVISORY INFORMATION** section below.

AERIAL DRIFT REDUCTION 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**).

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 maximum 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 best 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

Do not apply at a height greater than 10 feet above the top of the largest plants, unless a greater height is required 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 downward. Therefore, on the upwind and down-wind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Increase swath adjustment distance 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. If possible, avoid application below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence 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 greatest when conditions are both hot and dry.

Temperature Inversions

If possible, avoid application 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 ground fog; however, if fog is not present, inversions can also be identified by the 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

Apply pesticides 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).

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

CENTER PIVOT IRRIGATION APPLICATION

This product may be applied pre-emergence either by itself or tank mixed with other herbicides that are registered for use in center pivot applications, or post-emergence where allowed by this label to control weeds that have not yet emerged in crops that have already emerged. In order to avoid illegal residue levels, all restrictions in this label regarding rates, heights, timing, etc. must be followed.

Apply this product only through a center pivot irrigation system. 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 non-uniform distribution of treated water. If you have questions about calibration, contact State Extension 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 when needed.

Operating Instructions

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 or piston 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.

Apply in 1/2-1 inch of irrigation water by mixing 1 part herbicide(s) to a minimum 1 part water and inject the mixture into the center pivot irrigation system being sure to maintain agitation and inject into the irrigation water for the entire duration of the application. Higher water volumes should be used on fine-textured soils and lower water volumes used on coarse-textured soils. Increased accuracy in the calibration of the metering equipment may be achieved if a more dilute (i.e., larger volume) injection solution is used. Weed control may be reduced if more than 1 inch of irrigation water is applied.

NOTE: Excessive sprinkler overlap may result in crop injury, and insufficient sprinkler overlap may result in poor weed control.

DRY BULK GRANULAR FERTILIZERS

IMPORTANT: To Avoid Potential Explosions

- DO NOT impregnate this product or mixtures containing this product to ammonium nitrate, potassium nitrate, or sodium nitrate.
- DO NOT apply this product or mixtures containing this product to straight limestone because limestone will not absorb the solution. You may impregnate fertilizers that are a blend containing limestone.

This product and tank mixes containing this product may be coated onto or impregnated into dry bulk granular fertilizers that do not prohibit this use and are labeled for pre-plant incorporated or pre-plant surface applications. The most restrictive combination of directions, restrictions and precautions from each of the products used must be followed. It is the responsibility of the seller of the herbicide/fertilizer mixture to be certain they are in compliance with all state regulations governing the registration, blending, labeling and application of blended dry bulk granular fertilizers.

The blended dry bulk fertilizer mixture may be prepared using any commonly used closed dry bulk fertilizer blender including closed belt, drum and ribbon systems. The spray being applied to the fertilizer must be uniform in coverage and must not spray the walls of the blender.

To obtain a dry, free-flowing application mixture if the herbicide/fertilizer mixture is initially too wet, a granular clay or diatomaceous earth material such as Agsorb® or Celatom MP-79® may be added to the mixture only after the herbicide has been thoroughly blended. For best results, use a granule size of 6/30 or similar to the granule size of the bulk fertilizer being blended.

Using more than 5% absorptive material by weight should be avoided, and less than 2% by weight is generally needed.

The following formulas should be used to determine the amount of herbicide needed to blend per ton of fertilizer:

Pneumatic (Compressed Air) Application of Moccasin Herbicide Alone

Reduction of fertilizer mixture build-up on application equipment in conditions that promote buildup (such as low fertilizer use rates or dusty fertilizer, high humidity and/or high urea concentrations) may be accomplished by premixing 1-4 pints of Exxon Aromatic 200 per gallon of this product. This blend may be applied using a direct injection system or a fertilizer blender. Use of drying agents should be avoided when mixing this product with Exxon Aromatic 200. If a drier mixture than what results from mixing this product with Aromatic 200 is desired, this product may be impregnated with a drying agent in place of the Aromatic 200 in a blender prior to application. For best results when using a drying agent, use Agsorb FG or another drying agent that has a 6/30 particle size.

Use Precautions

Because crop injury or poor weed control may occur if the Moccasin Herbicide/ Exxon Aromatic 200 mixture is used in water or liquid fertilizer solutions, this combination must be applied to dry fertilizer ONLY.

Use of drying agents should be avoided when On-The-Go impregnation equipment will be used.

Application

DO NOT use a herbicide/fertilizer mixture if crops are planted in beds or crop injury may occur.

The fertilizer/herbicide combination should be applied at a rate of 200-700 pounds per acre immediately after blending using calibrated equipment that will mix uniformly. A non-uniform application may result in crop injury and poor weed control.

Weed control may be improved in conventional tillage fields by performing a shallow incorporation of the mixture into the soil. In fields that will be tilled conventionally, weed control may be improved if the mixture is incorporated to a shallow depth. If soil incorporation is not planned for the field, in fields with medium- or fine-textured soils applications should be made approximately 30 days prior to planting (14 days in coarse-textured soils) in order to allow the mixture to move into the soil via moisture.

MIXING INSTRUCTIONS

Do NOT allow this product to be back-siphoned into wells. All equipment used for mixing or irrigation MUST have anti-siphon or check-valves installed. Unused solutions and rinsate containing this product must be disposed of properly using the instructions in this label.

Moccasin Herbicide Alone

Mix by filling the solution tank with 1/2 to 3/4 of the desired final fluid fertilizer or water volume and starting agitation in the tank. Add this product at the rate specified in the label and add the remaining amount of water or fluid fertilizer, being sure to maintain agitation during mixing and application so that the resulting solution is uniformly mixed.

Tank Mixtures

Any tank mixture containing fluid fertilizer should be tested for compatibility suing the instructions in the **COMPATIBILITY TESTING** section below.

The following products (or products with the same active ingredient) may be tank mixed with Moccasin Herbicide.

2,4-D, AAtrex, Atrazine, Balance Pro, Balan, Banvel®, Basagran®, Broadloom™, Butoxone®, Butyrac®, Canopy®, Caparol® 4L, Cotoran®, Eptam®, Gramoxone, Interline, Landmaster® BW, Liberty®, Lorox, Marksman®, MSMA, Paraquat, Princep and Princep + Atrazine, Prowl, Pursuit®, Roundup (glyphosate products), Satellite, Simazine, Sonalan, Touchdown, Treflan, or TriCor.

To tank mix, fill the solution tank 1/4 full with water and commence agitation. If the product to be tank mixed is underlined in the list above, add it first and allow to disperse. Next add this product, followed by any products NOT underlined in the above list. Then add the remaining amount of water.

Fluid fertilizers may be used in place of, part or all of, the water in tank mixtures containing AAtrex, Atrazine (except post-emergence), Balance, Banvel (except post-emergence), Canopy, Caparol 4L, Cotoran*, Eptam, Lorox, Marksman, Princep, Prowl*, Pursuit, AAtrex (or Atrazine) + Princep (or Simazine), Satellite*, Simazine, Sonalan, Treflan, or TriCor. If tank mixing with AAtrex or Atrazine, refer to the AAtrex or Atrazine label for additional mixing instructions.

* Refer to **Special Mixing Instructions** for tank mixtures containing atrazine, Cotoran, simazine + Prowl or simazine + Satellite or simazine under the appropriate tank mixture section.

COMPATIBILITY TESTING

Tank mix incompatibility occurs most often in fertilizer/pesticide suspensions. To ensure the compatibility of this product with other pesticides and fertilizers, a jar test should be conducted prior to tank mixing. The procedure below assumes a spray volume of 25 gallons per acre and the amounts of the individual ingredients should be changed as appropriate for other spray volumes.

Important Note: Compatibility with between liquid fertilizers and the pesticides to be tank mixed must always be tested prior to use due to the variability of liquid fertilizers, even within the same analysis.

COMPATIBILITY TEST PROCEDURE

- Using two 1 quart jars, add 1 pint of the desired fertilizer or water carrier to each. The same source and temperature of water that will be used for the final tank mix should be used to conduct the test.
- To one jar add 1/4 tsp (1.2 milliliters) of a compatibility agent (such as Compex or Unite) approved for this use and gently shake or stir to mix.
- 3. To both jars add the relative proportions the recommended amounts of pesticide(s). If more than one pesticide is being tested for compatibility, add them in the following order: a) dry pesticides b) flowables and c) emulsifiable concentrates. Gently shake or stir after each addition.
- 4. Once all the desired tank-mix components are added, put the lids on the jars and invert each jar ten times to thoroughly combine. Set the jars aside for 15-30 minutes and then inspect for signs of incompatibility such as separation, precipitates, large flakes, gels or heavy oily films.
 - If the two jars look the same, the compatibility agent is not needed, but if the jar with the compatibility agent shows no signs of incompatibility but the other jar does, the compatibility agent will be necessary in the final tank mix. If either mixture separates but can be easily remixed, the mixture may be used only if sufficient agitation is maintained to keep the solution mixed in the spray tank.
- 5. After testing, all pesticide wastes must be disposed of as instructed by the **STORAGE AND DISPOSAL** section of this label.

If the desired mixture is found to be incompatible, the following may be tried to improve compatibility:

Slurry the dry pesticide(s) in water before addition; or,

Add 1/2 of the compatibility agent to the fertilizer or water and the other 1/2 to the flowable pesticide or emulsifiable concentrate prior to mixing.

DO NOT use the mixture if incompatibility is still observed.

CROP USE DIRECTIONS

CORN (ALL TYPES) MOCCASIN HERBICIDE ALONE

Application Methods

PRE-PLANT SURFACE, PRE-PLANT INCORPORATED, PRE-EMERGENCE, LAY-BY.

Refer to the **APPLICATION PROCEDURES** section at the beginning of this label.

Use Restrictions

DO NOT graze or feed forage from treated areas within 30 days of application.

DO NOT apply this product to muck or peat soils.

DO NOT apply, as either a single or split treatment, more than the labeled application rate for a given soil texture per year.

DO NOT apply to sweet corn ears within 30 days of harvest.

The total Moccasin Herbicide rate applied on corn during any one crop year must not exceed 3.7 pts/A, depending on soil texture.

In corn grown on soils having an organic matter content between 6-20%, this product may be applied as either a pre-plant surface, pre-plant incorporated, or pre-emergence treatment at a rate up to 2.5 pts/A.

Use	Use Rates (Pints per Acre)
Fall Applications	Minimum or no-till fields with > 2.5% organic matter:
for Control of Spring Weeds	Medium Soils: 1.6-1.9 pts/A
	Fine Soils: 1.9 pts/A

Instructions:

Do NOT apply this product to frozen ground.

In ND, SD, MN, WI and north of Route 30 in IA: Apply after September 30.

In NE north of Route 91 and in IA south of Route 30: Apply after
October 15

In IL north of Route 136: Apply after October 31.

Apply after harvest to crop stubble when the sustained soil temperature is $< 55^{\circ}F$, and falling, at a depth of 4 inches.

The field may be tilled before application as well as in the fall or spring after application as long as the tillage depth is no more than 2-3 inches. For best results, minimize the development of furrows and ridges when tilling.

If application is made in the spring, the total amount applied in the preceding fall plus the spring application must NOT exceed the maximum amount allowed for corn.

Fall Applications for	1.3-1.6 pts/A	
Control of Italian Ryegrass	On coarse soils use the lower rates per acre.	
(Lolium multiflorum)	On fine soils use the higher rates per acre.	

Instructions:

DO NOT apply this product to frozen ground.

For control of glyphosate-resistant Italian ryegrass, apply Moccasin Herbicide in the fall (Sept. 1-Dec. 1) after harvesting the previous crop and before Italian Ryegrass emerges.

The field may be tilled before application. If tillage follows the application ensure tillage depth is no more than 2-3 inches.

This product may be tank mixed with a paraquat herbicide to control emerged glyphosate-resistant Italian ryegrass.

For control or enhanced control of other weeds that may have already emerged at time of application, this product may be tank mixed with other herbicides labeled for that use on corn.

If application is made in the spring, the total amount applied in the preceding fall plus the spring application must NOT exceed the maximum amount allowed for corn.

Use	Use Rates (Pints per Acre)
Fall Pre-emergence Applications for Control or Suppression of Yellow Nutsedge the Following Spring (ONLY in ID, OR & WA)	1.3 pts/A

Instructions:

DO NOT apply this product to frozen ground.

DO NOT make more than one fall application per crop.

 ${\tt DO}$ NOT apply more than 1.3 pints per acre in a single fall pre-plant application.

Apply in the fall after harvest but before the soil freezes either as either an incorporated or surface applied treatment.

If application is made in the spring, the total amount applied in the preceding fall plus the spring application must NOT exceed the maximum amount allowed for corn.

Early Pre-plant Applications	Medium Soils: 1.6 pts/A	
	Fine Soils: 1.9 pts/A	
	Coarse Soils: 1.3 pts/A	

Instructions:

For use on medium and fine soils in minimum or no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, WY.

Apply as a split treatment with 2/3 of the listed rate of this product applied 30-45 days prior to planting and the remainder applied at planting. If application is made within 30 days of planting, the application may be either a single or split treatment.

On coarse soils, apply not more than 2 week prior to planting. If application is made in the spring, the total amount applied in the preceding fall plus the spring application must NOT exceed the maximum amount allowed for corn.

Early Pre-plant Applications	Medium Soils: 1.6 pts/A	
	Fine Soils: 1.9 pts/A	
	Coarse Soils: 1.3 pts/A	

Instructions:

For use on medium and fine soils in minimum or no-tillage systems in CT, DE, MA, MD, ME, MI, NH, NY, OH, PA, RI, VA, VT, WV.

Apply as a split treatment with 2/3 of the listed rate of this product applied 30-45 days prior to planting and the remainder applied at planting. If application is made within 30 days of planting, the application may be either a single or split treatment.

On coarse soils, apply not more than 2 weeks prior to planting. If application is made in the spring, the total amount applied in the preceding fall plus the spring application must NOT exceed the maximum amount allowed for corn.

If precipitation causes the duration of weed control to be reduced unsatisfactorily, a post-emergence application of a herbicide labeled for use on corn may be made.

NOTE: When using a post-emergent herbicide in conjunction with this product, the most restrictive combination of directions, restrictions and precautions must be followed.

(continued)

Use	Use Rates (Pints per Acre)	
	Fine Soils less than 3% organic matter: 1.3-1.6 pts/A	
Pre-plant	Fine Soils greater than 3% organic matter: 1.6-1.9 pts/A	
Incorporated or Pre-emergence Applications	Medium Soils: 1.3-1.6 pts/A	
	Coarse Soils less than 3% organic matter: 1.0-1.3 pts/A	
	Coarse Soils greater than 3% organic matter: 1.3 pts/A	

Instructions:

Follow the application instructions for Moccasin Herbicide used alone as described in **APPLICATION PROCEDURES** section of this label.

Post-emergence or Lay-By Applications	1.9 pts/A
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Instructions:

Weed control in corn may be extended by applying this product after corn has emerged but prior to the plant height reaching 40 inches. This application can follow any pre-plant surface applied, pre-plant incorporated or pre-emergence herbicide applications (including this product). Best results will be achieved if the soil is weed free at the time of application and the application is made to the base of corn plants at least 5 inches tall.

Specific Instructions for Problem Weeds

For Partial Control of Eclipta, Shattercane, Wild Proso Millet and Woolly Cupgrass

Make a pre-plant incorporated application at a rate of 1.0-1.3 pts/A, and a second pre-emergent application at a rate of 1.0-1.3 pts/A. The pre-emergence application should be made during planting, or after planting but prior to corn and weed emergence. If severe weed pressure is anticipated, use the higher rate listed. Weeds that emerge late may require a shallow cultivation to control.

Control Program for Wild Proso Millet and Woolly Cupgrass

The following 3-step program may be used for control of Wild Proso Millet and Woolly Cupgrass:

- 1. Make an early pre-plant, pre-plant incorporated or pre-emergence application of this product at a rate of 1.6 pts/A on medium soils, or 1.9 pts/A on fine soils. If precipitation does not occur within 5-7 days of application, incorporate lightly using a rotary hoe.
- 2. Post-emergence when corn is at least 4 inches tall and weeds are 2-3 inches tall, apply a tank mix of Beacon (0.38 ounces per acre) or Exceed (1 packet per 4 acres) with Accent SP (0.33 ounces per acre), 1 quart of crop oil concentrate (COC) and 28% nitrogen fertilizer (1 gallon per acre) or the equivalent amount of sulfate.
- 3. 14-21 days after the post-emergence application the field should be cultivated.

CORN MOCCASIN HERBICIDE COMBINATIONS

Moccasin Herbicide in any tank mixture for corn may be applied in water or fluid fertilizer before corn emerges. Use only water as a carrier when Moccasin Herbicide is applied after corn emergence.

Use Restrictions

DO NOT graze or feed forage from treated areas within 30 days of application. DO NOT apply this product to muck or peat soils.

DO NOT apply, as either a single or split treatment, more than the labeled application rate for a given soil texture per year.

DO NOT apply to sweet corn ears within 30 days of harvest.

SPECIFIC INSTRUCTIONS FOR TANK MIXES OF THIS PRODUCT WITH OTHER HERBICIDES LABELED FOR CORN.

If tank mixing this product with atrazine, the most restrictive combination of rates, restrictions and precautions from both labels must be followed. Broadleaf weed control may be affected if atrazine is applied at rates lower than those listed on this label and the atrazine label should be consulted for a list of weeds controlled at the reduced rates.

TANK MIXTURE WITH ATRAZINE AND/OR SIMAZINE (Pre-plant Surface, Pre-plant Incorporated, Pre-emergence)

Additional Weeds Controlled

Browntop Panicum, Cocklebur, Common Purslane, Hairy Nightshade, Lambsquarters, Morningglory, Ragweed, Smartweed, Velvetleaf

Application Instructions/Comments

For control of most emerged annual weeds and suppression of perennial weeds, tank mix with a burndown herbicide.

DO NOT exceed a total of 2.5 pounds Al of atrazine per acre per year. Rate restrictions for atrazine may be implemented within specific geographic areas and deviation from these State imposed restrictions are a violation. Prior to application, consult the agency responsible for pesticide regulation in your State to determine if any restrictions apply in your desired application area.

1.0 lb of atrazine 90 (dry) or simazine 90 (dry) = 1.8 pt of atrazine 4L or simazine 4L.

PRE-PLANT SURFACE-APPLIED

Follow instructions for use of Moccasin Herbicide alone under **APPLICATION PROCEDURES** and under application instructions for Moccasin Herbicide alone on corn.

Medium Soils: Apply 1.6 pts/A Moccasin Herbicide + 3.2-4.0 pts/A atrazine 4L or simazine 4L OR 3.2-4.0 pts/A atrazine 4L + simazine 4L combined.

Fine Soils: Apply 1.6-1.9 pts/A Moccasin Herbicide + 4.0 pts/A atrazine 4L or simazine 4L OR 4.0-5.0 pts/A atrazine 4L + simazine 4L combined. in minimum-tillage and no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY.

Apply the tank mixtures as a split or single treatment in those states and as indicated under **CORN** – **MOCCASIN HERBICIDE ALONE** in **PRE-PLANT SURFACE-APPLIED** section of the label.

On Coarse Soils: Apply 1.3 pts/A Moccasin Herbicide + 3.2 pts/A atrazine 4L or simazine 4LOR 3.2 pts/A atrazine 4L + simazine 4L combined.

PRE-PLANT INCORPORATED OR PRE-EMERGENCE

Follow instructions for use of Moccasin Herbicide alone under **APPLICATION PROCEDURES**. Apply Moccasin Herbicide + atrazine or simazine, or Moccasin Herbicide + atrazine + simazine, using the appropriate rates.

Use Restrictions

DO NOT exceed a total of 1.9 pts/A (1.9 lbs ai/A) of Moccasin Herbicide in the pre-plant incorporated plus pre-emergence application on soils with less than 6% organic matter.

DO NOT Apply To Peat or Muck Soils (> 20% Organic Matter)

Shattercane and Wild Proso Millet - Partial Control

For a more consistent partial control of shattercane and wild proso millet, tank mix 1.0-1.3 pts/A Moccasin Herbicide with atrazine or simazine preplant incorporated, followed by 1.0-1.3 pts/A Moccasin Herbicide preemergence. Make the pre-emergence application during or after planting, but prior to weed and corn emergence.

When following one of the application regimes above, after the pre-emergence or post-emergence application a shallow cultivation may be necessary to help control any late emerging shattercane or wild proso millet plants.

Table 1: Pre-plant Incorporated or Pre-emergence Application Rates for This Product when Tank Mixed with atrazine or simazine and Applied to Corn Based on Soil Texture and Percent Organic Matter

	SOIL TEXTURE		
	Coarse	Medium	Fine
	Soils < 3% Org	anic Matter	
Moccasin Herbicide + atrazine 90¹ dry or simazine 90¹ dry	0.8-1.0 pt/A + 1.1-2.2 lbs/A	1.0-1.3 pts/A + 1.3-2.2 lbs/A	1.0-1.3 pts/A + 1.3-2.2 lbs/A
Moccasin Herbicide + atrazine 90² dry + simazine 90² dry	0.8-1.0 pt/A + 0.6-1.1 lbs/A + 0.6-1.1 lbs/A	0.8-1.0 pt/A + 0.6-1.1 lbs/A + 0.6-1.1 lbs/A	0.8-1.0 pt/A + 0.6-1.1 lbs/A + 0.6-1.1 lbs/A
	Soils ≥ 3% Organic Matter		
Moccasin Herbicide + atrazine 90¹ or simazine 90¹	1.0 pt/A + 1.3-2.2 lbs/A	1.3 pts/A + 1.8-2.2 lbs/A	1.3-1.6 pts/A + 1.8-2.2 lbs/A ³
Moccasin Herbicide + atrazine 90 ² + simazine 90 ²	1.0 pt/A + 0.7-1.1 lbs/A + 0.7-1.1 lbs/A	1.3 pts/A + 0.9-1.1 lbs/A + 0.9-1.1 lbs/A	1.3-1.6 pts/A + 0.9-1.1 lbs/A ³ + 0.9-1.1 lbs/A ³

¹When heavy infestations of crabgrass or fall panicum are anticipated, simazine is preferred over atrazine. On soils having between 6% and 20% organic matter, Moccasin Herbicide may be used at rates up to 2.22 pts/A in tank mix combination with 2.2 lbs/A of atrazine 90 or equivalent rates of atrazine 4L. Refer to the atrazine 90 label for weeds controlled at this reduced rate.

- ²When heavy broadleaf weed infestations are anticipated and tank mixing Moccasin Herbicide with atrazine 90 AND simazine 90, use equal rates of each as shown. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of atrazine 90 to simazine 90 instead of the 1:1 ratio listed. (Example: Total atrazine 90 + simazine 90 = 1.2 lbs/A, use 0.4 lb/A of atrazine 90 + 0.8 lb/A of simazine 90, respectively).
- ³ For cocklebur, yellow nutsedge, and velvetleaf control on fine-textured soils above 3% organic matter, apply 1.3-1.6 pts/A of Moccasin herbicide with 2.25 lbs/A of atrazine 90, or equivalent rates of atrazine 4L, or the same total amount of atrazine + simazine.

TANK MIX WITH ATRAZINE (Post-emergence)

Tank mixtures of Moccasin Herbicide with atrazine may be applied following use of any registered pre-plant surface-applied, pre-plant incorporated, or pre-emergence corn herbicide, including Moccasin Herbicide + atrazine.

Additional Weeds Controlled

Barnyardgrass (watergrass), Crabgrass, Crowfootgrass, Fall Panicum, Foxtail (giant, green and yellow), Jimsonweed, Kochia, Lambsquarters, Mustard, Pigweed, Prickly Sida, Purslane, Ragweed, Smartweed, Velvetleaf

Additional Weeds Partially Controlled

Cocklebur, Morningglory, Yellow Nutsedge

Use Restrictions

DO NOT exceed 3.7 pts/A, nor the atrazine rate more than 2.5 lbs a.i./A during any one crop year. Refer to the atrazine label for geographic, soiltexture, and rotational restrictions.

Application Instructions

Coarse Soils: Apply 1.0 pts/A of Moccasin Herbicide with 1.3 lbs/A of Atrazine 90*.

Medium Soils: Apply 1.3 pts/A of Moccasin Herbicide with 1.8 lbs/A of atrazine 90.

Fine Soils: Apply 1.3-1.6 pts/A of Moccasin Herbicide with 1.8-2.2 lbs/A** of atrazine 90.

Apply this tank mixture before grass and broadleaf weeds pass the 2-leaf stage and before corn exceeds 5 inches in height. Application to weeds larger than the 2-leaf stage will generally result in unsatisfactory control.

Lay-By: DO NOT apply this post-emergence tank mixture in fluid fertilizer or severe crop injury may occur. Apply to corn less than 12 inches tall with applications to corn in over 5 inches directed to the base of the corn plants and applications to corn plants less than 5 inches tall made over the top of the plants. Some corn leaf burn may result but is not likely to affect later growth or yield.

- *Use equivalent rates when using atrazine 4L: 1 pound of atrazine 90 = 1.8 pints of atrazine 4L.
- **For better control of cocklebur, morningglory, velvetleaf, and yellow nutsedge on fine-textured soils above 3% organic matter, apply 1.3-1.6 pts/A of Moccasin Herbicide with 2.2 lbs/A of atrazine 90, or equivalent rate of atrazine 4L.

TANK MIX WITH BANVEL (Pre-emergence, Post-emergence)

Additional Use Restrictions

DO NOT apply using aircraft.

DO NOT apply on coarse soils or on soils with less than 2.5% organic matter.

PRE-EMERGENCE

In CO, IA, IL, IN, KS, MN, NE, OH, SD, and WI, this use may ONLY be applied to flat-planted (no furrow) field corn.

In addition to the weeds controlled by this product when used alone, preemergence applications of this product with Banvel will also control lambsquarters, ragweed, smartweed, cocklebur*, jimsonweed*, morningglory*, and velvetleaf*. * Partial control.

Medium Soils: Apply 1.3 pts/A of Moccasin Herbicide with labeled rate of Banvel herbicide.

Fine Soils: Apply 1.3-1.6 pts/A of Moccasin Herbicide with labeled rate of Banvel herbicide.

Broadcast apply tank mix to the soil surface at or after planting, but before the corn emerges. Plant corn at least 1.5 inches deep and apply behind planting equipment, avoiding incorporation by the planter wheel or other seed covering device. DO NOT incorporate prior to corn emergence. DO NOT disturb the soil more than 1/2 inch deep if it is necessary to rotary hoe to break the soil crust.

POST-EMERGENCE FOR CONTROL OF PIGWEED IN MID-ATLANTIC STATE (DE, MD, PA, VA AND WV)

When pigweed plants are less than 3 inches tall and before corn exceeds 5 inches in height, apply 1.0-1.4 pts/A of Moccasin Herbicide with 0.5-1.0 pts/A of Banvel or Clarity® in a minimum of 20 gallons of spray per acre using ground equipment. Use the lower rates on coarse-textured and low organic matter soils, and the higher rate on fine-textured and high organic matter soils.

During application, care must be taken to avoid drift to sensitive non-target plants such as soybeans or injury may occur.

TANK MIX WITH ATRAZINE OR SIMAZINE, OR ATRAZINE + SIMAZINE WITH PARAQUAT OR GLYPHOSATE (Minimum-till, No-till Systems)

This product alone or tank mixed with atrazine and/or simazine provides preemergence control of the weeds listed on this label. In Minimum-tillage and Notillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, tank mix with a paraquat herbicide for control of most emerged annual weeds and suppression of perennial weeds; or with glyphosate for control of most emerged annual and perennial weeds.

Application

Apply a tank mix with paraquat or glyphosate as directed on the product label before, during, or after planting, but prior to corn emergence.

PARAQUAT BRANDS

Apply as directed on the product label. This treatment will NOT control weeds taller than 6 inches. DO NOT apply combinations containing paraquat brands in suspension-type liquid fertilizers because the activity of the active ingredient (paraquat) is reduced.

GLYPHOSATE BRANDS

Refer to the glyphosate brand label for a list of controlled weeds, application rates for specific weeds, and other information related to the use of this product.

Apply with ground equipment using 20-60 gallons of water or fluid fertilizer per acre.

Coarse Soils: Apply 1.0 pts/A Moccasin Herbicide with 1.3 lbs/A of atrazine 90° or simazine 90° or with 0.7 lb/A of atrazine 90° + 0.70 lb/A of simazine 90° .

Medium Soils: Apply 1.3 pts/A Moccasin Herbicide with 1.8 lbs/A of atrazine 90 or simazine 90 or with 0.9 lb/A of atrazine 90 + 0.9 lb/A of simazine 90

Fine Soils³: Apply 1.3-1.6 pts/A Moccasin Herbicide with 1.8-2.2 lbs/A atrazine 90 or simazine 90 or with 0.9-1.1 lbs/A atrazine 90 + 0.9-1.1 lbs/A simazine 90

- ¹When heavy infestations of crabgrass or fall panicum are anticipated, simazine is preferred over atrazine.
- ²When heavy broadleaf weed infestations are anticipated and tank mixing this product with atrazine 90 AND simazine 90, use equal rates of each as shown. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of atrazine to simazine instead of the 1:1 ratio listed. (Example: Total atrazine 90 + simazine 90 = 1.2 pounds per acre, use 0.4 pound of atrazine + 0.8 pound of simazine, respectively).
- ³ For cocklebur, yellow nutsedge, and velvetleaf control on fine-textured soils above 3% organic matter, apply 1.3-1.6 pts/A of Moccasin Herbicide with 2.25 lbs/A of atrazine 90 or equivalent rates of atrazine 4L, or the same total amount of atrazine + simazine.

TANK MIX WITH ATRAZINE + 2,4-D; OR ATRAZINE + 2,4-D + BANVEL (Minimum-till; No-till Systems)

Apply this product with atrazine before, during or after planning but prior to corn emergence according to the rates in this label. If heavy crop residues are present at the time of application, add 0.8-1.6 pts/A of a 2,4-D amine product labeled for this use on corn that consists of 3.8 pounds of 2,4-D amine per gallon (such as Weedar 64, Weedar 64A, DMA-4 Herbicide, Weedone® 638, or Formula 40) to the tank mix. This product should be added last, and the resulting solution applied in a minimum of 25 gallons of carrier per acre.

Because burndown of existing weeds is enhanced if nitrogen solutions and complete liquid fertilizers are applied prior to corn emergence, use nitrogen solutions or complete liquid fertilizers as carriers instead of water for best results. Add X-77 surfactant at 1.0-2.0 quarts per 100 gallons of diluted spray, or another appropriate surfactant at its labeled rate, or add crop oil concentrate (COC) plus 28% liquid nitrogen (or the equivalent). Applications should be made prior to weeds reaching 3 inches in height. If alfalfa is present, add 0.33-0.5 pt/A of Banvel to the tank mix and apply prior to the alfalfa reaching 6 inches in height.

When existing weeds are more than 3 inches tall or when very dry conditions exist in fields with existing sod grasses (e.g., bromegrass, orchardgrass, rye, or timothy), in place of or in addition to 2,4-D as indicated above, add paraquat brands at the rate recommended on the product label. DO NOT apply paraquat brands in suspension-type liquid fertilizer. The most restrictive combination of instructions, limitations and other restrictions from all the products being applied must be followed.

TANK MIX WITH MARKSMAN IN FIELD AND SILAGE CORN (Conservation Tillage)

Moccasin Herbicide mixed with Marksman herbicide will kill most emerged small annual weeds in conservation tillage systems where corn is planted directly into a cover crop or previous crop residue. Apply on medium and fine soils with greater than 2.5% organic matter before, during, or after planting, but prior to corn emergence. Add paraquat brands at its standard rate in fields that have existing vegetation taller than 3 inches in height or when very dry conditions exist. Moccasin Herbicide mixed with Marksman may be applied post-emergence to corn less than 3 inches tall but prior to weedy grasses passing the 2-leaf stage.

Because burndown of existing weeds is enhanced if nitrogen solutions and complete liquid fertilizers are applied prior to corn emergence, use nitrogen solutions or complete liquid fertilizers as carriers instead of water for best results. DO NOT apply paraquat brands in suspension-type liquid fertilizer or to emerged corn. The most restrictive combination of instructions, limitations and other restrictions from all the products being applied must be followed.

TANK MIX WITH BALANCE PRO (Field Corn Only)

Because this product is complementary with Balance Pro herbicide from a weed control and crop response standpoint, several tank mix rates may be considered. By adding Balance Pro, control of several problem weeds including Texas Panicum, Wild Proso Millet and Wooly Cupgrass will be improved, while this product will improve the duration as well as the variety of annual grasses and small seeded broadleaf weeds that are controlled.

NOTE: To minimize risk to crops, refer to the Balance Pro label for specific restrictions regarding soil textures, pH, percent organic matter and other important considerations.

The rates listed below are inversely proportional combinations of Moccasin Herbicide and Balance Pro, that is higher rates of Moccasin Herbicide are used with lower rates of Balance Pro, and vice versa. The appropriate rate is selected based on your specific conditions, the weeds being targeted and your level of acceptance for potential crop damage.

For example, if Texas panicum, woolly cupgrass, or wild proso millet are a primary target weed, a tank mix combination with a higher Balance Pro rate for the given soil type could be used. Another example could be if your acceptance of potential crop damage is low and/or a more general weed spectrum is targeted (especially yellow foxtail, witchgrass or yellow nutsedge), a mix with a higher Moccasin Herbicide rate for the given soil type might be appropriate. Finally, if a target weed is listed as controlled on both product labels, a tank mix consisting of intermediate rates of both products could be used. NOTE: If a target weed is listed as controlled by only one of these two products, DO NOT apply less than the application rate for that weed as recommended in the individual product label or unacceptable control may result. The most restrictive combination of instructions, limitations and other restrictions from all the products being applied must be followed.

The following rate recommendations are for pre-plant applications (incorporated or surface applied) up to 7 days before planting or pre-emergence in field corn:

Coarse Soils: Balance Pro: 1.5 or 1.88 ounces/A. Moccasin Herbicide: 1.0-1.3 pts/A. DO NOT apply Balance Pro on coarse-textured soils with less than 1.5% organic matter.

Medium Soils: Balance Pro: 1.5 ounces/A + Moccasin Herbicide: 1.3 pts/A. Balance Pro: 1.88 or 2.25 ounces/A + Moccasin Herbicide: 1.0 pts/A. On medium-textured soils, this product may be used in combinations with Balance Pro at rates up to 1.6 pts/A.

Fine Soils: Balance Pro: 1.5 ounces/A + Moccasin Herbicide: rates down to 1.3 pts/A if the soil organic matter is less than 3%; or 1.6 pts/A if the soil organic matter content is 3% or more. Balance Pro: 1.88 or 2.25 ounces/A + Moccasin Herbicide: rates down to 1.3 pts/A. Balance Pro: 3.0 ounces or more per acre + Moccasin Herbicide: rates as low as 1.0 pts/A. On fine-textured soils, this product may be used in combinations with Balance Pro at rates up to 1.9 pts/A if the soil organic matter content is 3% or greater.

POST-EMERGENCE SALVAGE WEED CONTROL (Field Corn Only)

The tank mix combinations listed below may be used for post-emergence weed control in specific types of field corn.

Use Restrictions

The most restrictive combination of instructions, limitations and other restrictions from all the products being applied must be followed.

Injury to the corn may occur if fluid fertilizers are used with these mixtures. Apply ONLY to the specific field corn type specified on the tank mix product label. If applied to corn over 4 inches tall, in-row weed control may be diminished.

Moccasin Herbicide + Interline Herbicide or Liberty Herbicide (Post-emergence Use in Glufosinate Tolerant (e.g. LibertyLink® Corn))

Interline herbicide and Liberty herbicide will provide post-emergence control of a broad spectrum of grass and broadleaf weeds, and Moccasin Herbicide provides residual control of grasses and certain broadleaf weeds. These tank mixtures can be applied to control weeds post-emergence in corn designated as LibertyLink or glufosinate tolerant.

For season-long residual control from this tank mix combination with Interline or Liberty, refer to the **CORN (ALL TYPES) – MOCCASIN HERBICIDE ALONE** section and use the minimum rate per soil texture and organic matter classification. Refer to the Interline herbicide or Liberty herbicide labels for post-emergence application rates according to weed species and their maximum height at the time of application. If multiple weed species are present, use the highest rates listed in the Interline or Liberty label to control the species and growth stages present. If difficult species and/or severe weed populations are anticipated, use the maximum rates when rate ranges are listed.

Be sure to follow all applicable use directions, limitations, precautions, and restrictions regarding application to corn on the Moccasin Herbicide, Interline Herbicide, and Liberty Herbicide labels.

Moccasin Herbicide + Glyphosate Brands for Post-emergence Application to Glyphosate-tolerant Corn (e.g., Roundup Ready® or Agrisure™ GT)

This product may be tank mixed with glyphosate brands and applied post-emergence to weeds in glyphosate-tolerant corn to provide post-emergence control of weed species on the glyphosate brand label and residual control of weed species on the Moccasin Herbicide label. Post-emergence applications may be made to glyphosate-tolerant corn from emergence until the corn is 30 inches tall, or the V8 stage (8 leaves with collars), whichever comes first. Based on the soil texture and organic matter present in the field being treated, use the minimum Moccasin Herbicide rates listed in the **CORN (ALL TYPES) – MOCCASIN HERBICIDE ALONE** section of this label. If difficult species and/or severe weed populations are anticipated, use the maximum rates when rate ranges are listed. Refer to the glyphosate brand label for guidance on appropriate use directions, application procedures, precautions, and restrictions as well as specific instructions for control of problem species.

Be sure to follow all applicable use directions, limitations, precautions, and restrictions regarding application to corn on the Moccasin Herbicide and glyphosate brand labels, as well as the Supplemental Labeling of glyphosate for postemergence application to corn with the glyphosate or Roundup Ready Gene.

Moccasin Herbicide + Glyphosate + Atrazine for Post-emergence Application to Glyphosate-tolerant Corn (e.g., Roundup Ready or Agrisure GT)

This product may be tank mixed with atrazine and glyphosate brands and applied post-emergence to weeds and to glyphosate-tolerant corn to provide post-emergence control of weed species on the glyphosate-brand label and residual control of weed species on the Moccasin Herbicide and atrazine labels. Post-emergence applications may be made to glyphosate-tolerant corn from emergence until the corn is 12 inches tall. If difficult species and/or severe weed populations are anticipated, use the maximum rates when rate ranges are listed. Based on the soil texture and organic matter present in the field being treated, use the minimum Moccasin Herbicide rates listed in the TANK MIX WITH ATRAZINE AND/OR SIMAZINE (Pre-plant

Surface, Pre-plant Incorporated, Pre-emergence) and TANK MIX WITH ATRAZINE (Post-emergence) sections of this label.

Be sure to follow all applicable use directions, limitations, precautions, and restrictions regarding application to corn on the Moccasin Herbicide, atrazine and glyphosate brand labels.

COTTON MOCCASIN HERBICIDE ALONE

Application Methods

FALL APPLICATION, PRE-PLANT INCORPORATED, PRE-EMERGENCE, POST-EMERGENCE

Use Restrictions

DO NOT graze or feed forage or fodder to livestock from cotton.

DO NOT use this product in Gaines County, TX.

DO NOT apply more than 1.9 pts/A on coarse soils in a growing season.

DO NOT apply more than 2.5 pts/A on medium or fine soils in a growing season.

DO NOT apply this product to sandy or loamy sand soils.

DO NOT apply this product to Taloka silt loam.

DO NOT apply this product where water may pond over the application site.

In furrow planted cotton, DO NOT apply post-emergent until after first "knifing" or cultivation to level soil surface.

DO NOT apply this product over-the-top with fluid fertilizer or any other adjuvant, oil, surfactant or pesticide not listed in the **COTTON** section of this label.

Pre-plant Incorporated, Pre-emergence Use Rates

Application	Use Rates		
Site	Sandy Loams	Medium Soils	Fine Soils
AR, KS, LA, MS, TN and Bootheel of MO	0.5-1.0 pt/A	0.6-1.3 pts/A	1.0-1.3 pts/A
NM, OK, TX	1.0 pt/A	1.0-1.3 pts/A	1.3 pts/A

FALL APPLICATION FOR ITALIAN RYEGRASS CONTROL

DO NOT apply this product to frozen ground.

For residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*) apply Moccasin Herbicide in the fall (between September 1 and December 1) at a rate of 1.3-1.6 pts/A. The higher rates should be used on fine-textured soils and the lower rates on coarse-textured soils.

Tillage may be performed prior to application. If planning to till after application, incorporate to a maximum depth of 2-3 inches. If an application is planned for the following spring in addition to the fall application, the total amount of Al applied in both applications must not exceed the maximum total amount listed in the instruction for the specific crop (depending on soil texture, up to 2.5 pts/A).

A tank mix of Moccasin Herbicide with paraquat can be used for fall treatments made after emergence of glyphosate-resistant Italian ryegrass. Refer to the paraquat brand label for specific rates, application instructions and restrictions. Other registered herbicides may be tank mixed with Moccasin Herbicide for control or improved control of other weeds present at the time of application.

PRE-PLANT INCORPORATED (NM, OK, AND TX ONLY)

Immediately before planting, at planting, or after planting, but prior to crop or weeds emergence, apply Moccasin Herbicide and incorporate into the top inch of soil using a rolling cultivator or similar equipment being sure to have uniform incorporation. If furrow irrigation is used or dry weather is predicted after application, a pre-plant incorporated application should be made. For best results when furrow irrigation is used, the top of the bed should be moistened prior to application.

If the crop will be planted on beds, application/incorporation should be done after the beds have been formed. Be sure to plant the cotton below the zone

of incorporation; that is, at least at least 1 inch deep on *fine soils* and 1.5 inches deep on *coarse* and *medium* soils.

When incorporating prior to planting, use a planter that will disturb the soil the least amount possible.

For best results on yellow nutsedge and suppression of seedling johnsongrass, whether applied alone or mixed with Caparol 4L make a pre-plant incorporated application of this product at the maximum rate for the soil texture.

PRE-EMERGENCE

Either apply this product prior to weed emergence at planting, or prior to weed and crop emergence after planting.

POST-EMERGENCE

Apply this product at the following rates as either a broadcast over-the-top or soil surface directed application:

VA, NC, SC, GA, FL and AL: 1.0-1.3 pts/A. TN, AR, KS, MS, MO and LA: 0.5-1.3 pts/A.

TX, OK, NM, AZ, CA and Clay Soils in AR: 1.0-1.3 pts/A before August 1.

Post-emergence over-the-top applications may NOT be made within 100 days of harvest, and soil directed post-emergence applications may NOT be made within 80 days of harvest.

This product may be applied post-emergence over any previous registered herbicide treatment. Because this product does not control emerged weeds, application must be made prior to weed emergence or after clean cultivation to remove existing weeds.

To better incorporate this product in fields that are sprinkler-irrigated, after application apply 1/2-1 inch of water (1/2 inch on coarse-textured soils to 1 inch on fine-textured soils). In fields that are furrow-irrigated, incorporate the application with a rolling cultivator or similar equipment that provides uniform shallow incorporation to a depth of 2 inches or less and then irrigate. In non-irrigated fields, if a minimum of 1/2 inch of precipitation does not occur within 10 days after application, the application should be incorporated using a rolling cultivator or similar equipment that provides uniform shallow incorporation.

MULTIPLE APPLICATIONS IN COTTON

Application Methods

PRE-PLANT INCORPORATED, PRE-EMERGENCE FOLLOWED BY A POST-EMERGENT TREATMENT

Used as part of a weed control program, multiple applications of Moccasin Herbicide can be effective when weed pressure is heavy, difficult to control species are expected, and/or reinfestation may occur. Apply prior to weed emergence or after cultivation to remove existing weeds.

Post-emergent Use Rates

Geography	Use Rates
AR, KS, LA, MO, MS, TN	0.5-1.3 pts/A pre-emergent only followed by 0.5-1.3 pts/A post-emergent
NM, OK, TX	1.0-1.3 pts/A pre-plant incorporated or pre-emergent followed by 1.0-1.3 pts/A post-emergent before August 1
NC, VA	1.0-1.3 pts/A pre-plant incorporated or pre-emergent followed by 1.0-1.3 pts/A post-emergent

To better incorporate this product in fields that are sprinkler-irrigated, after application apply 1/2-1 inch of water (1/2 inch on coarse-textured soils to 1 inch on fine-textured soils). In fields that are furrow-irrigated, incorporate the application with a rolling cultivator or similar equipment that provides uniform shallow incorporation to a depth of 2 inches or less and then irrigate. In non-irrigated fields, if a minimum of 1/2 inch of precipitation does not occur within 10 days after application, the application should be incorporated using a rolling cultivator or similar equipment that provides uniform shallow incorporation.

Precautions: Do not make broadcast applications of this product to cotton planted in furrows more than 2 inches deep to avoid possible crop damage

due to concentration of this product in the seed furrow. For the same reason, the width of a band application to furrows more than 2 inches deep must not exceed the width of the bottom of the furrow.

Whether alone or in combination with other products, for best results on yellow nutsedge and suppression of seedling johnsongrass, make a pre-plant incorporated, pre-emergence or post-emergence application of this product at the maximum rate for the soil texture.

COTTON MOCCASIN HERBICIDE COMBINATIONS

TANK MIXTURE WITH CAPAROL 4L

Application Methods

PRE-PLANT INCORPORATED, PRE-EMERGENT, POST-EMERGENCE DIRECTED

In addition to the weeds controlled by Moccasin Herbicide alone, this tank mix combination applied pre-plant incorporated or pre-emergence will also control the following weeds:

Cocklebur* Lambsquarters Purslane
Coffeeweed* Malva Ragweed
Groundcherry Morningglory (annual) Wild Oats

Hairy Nightshade Mustard

Junglerice Prickly Sida (Teaweed)

In a post-emergence directed application, Caparol 4L provides control and residual control of weeds on its label, while Moccasin Herbicide provides residual control of the weeds listed in this label.

Use Restrictions

DO NOT graze or feed forage or fodder to livestock from cotton.

DO NOT use this mix in Gaines County, TX.

DO NOT apply this mix to sandy or loamy sand soils.

DO NOT apply this mix to Taloka silt loam.

DO NOT apply this mix where water may pond over the application site.

 ${\tt DO}$ NOT apply this mix to areas with excess salt or to cut areas of newly leveled fields.

DO NOT apply to glandless cotton varieties.

PRE-PLANT INCORPORATED OR PRE-EMERGENCE

Apply this product mixed with Caparol 4L as either a pre-plant incorporated or pre-emergence treatment in a water or fluid fertilizer carrier, using the following rates as appropriate for your location and soil type. If using fluid fertilizer as the carrier, mix only the amount needed for the single application and do not allow these mixtures to sit without agitation.

Soil Type	Use Rates		
Sui Type	Moccasin Herbicide	Caparol 4L	
OK, TX (Blackla	OK, TX (Blacklands and Gulf Coast)		
Loams Clays	0.8-1.3 pts/A 1.3 pts/A	2.4 pts/A 4.8 pts/A	
TX (Rio Grande Valley)			
Loams Clays	0.8-1.3 pts/A 1.3 pts/A	3.2 pts/A 4.8 pts/A	
NM (High and Rolling Plains), TX (Southwest and Edwards Plateau)			
Sandy Loams Loams Sandy Clay Loams Other Clay Soils	0.8-1.0 pt/A 0.8-1.3 pts/A 1.3 pts/A 1.3 pts/A	1.6 pts/A 2.4 pts/A 2.4 pts/A 3.2 pts/A	

^{*} Shallow-germinating seedlings only.

The cotton should be planted beneath the zone of incorporation, at least 1 inch deep on fine soils and 1.5 inches deep on medium or coarse. If incorporated prior to planting, a planter that will cause minimal soil disturbance should be used.

POST-EMERGENCE DIRECTED (AR, AZ, CA, LA, MO, MS, NM, OK, TN AND TX)

To control emerged weeds and provide residual pre-emergence control of weeds in cotton, this product may be tank mixed with Caparol 4L in water ONLY and applied as a post-emergence directed treatment in a minimum of 20 gallons of spray volume per acre. These treatments may be applied over previous registered treatments, including Moccasin Herbicide, provided the maximum label rate of any product is not exceeded. DO NOT make these treatments over-the-top of cotton or injury to the crop may result.

Follow the directions, restrictions, and precautions on the Caparol 4L label when Caparol is applied as a post-emergence-directed application. Refer to the directions, restrictions, and precautions for use of Moccasin Herbicide under the **POST-EMERGENCE** in **COTTON – MOCCASIN HERBICIDE ALONE** section earlier in this label.

To avoid concentration in the furrow and potential crop injury, do not make a post-emergence application of this product until after knifing or cultivation to level soil surface. Do not make broadcast applications of this product to cotton planted in furrows more than 2 inches deep to avoid possible crop damage due to concentration of this product in the seed furrow. For the same reason, the width of a band application to furrows more than 2 inches deep must not exceed the width of the bottom of the furrow.

TANK MIXTURE WITH COTORAN DF

Application Methods

PRE-EMERGENCE, POST-EMERGENT

In addition to the weeds controlled by Moccasin Herbicide and Cotoran DF alone, this tank mix combination applied pre-emergence will also control the following weeds:

Spurge (spotted, hyssop, nodding, prostrate)

Refer to the Cotoran label and be sure to follow the most restrictive combination of instructions, precautions, and restrictions found in both labels.

Use Restrictions

DO NOT graze or feed forage or fodder to livestock from cotton.

DO NOT use this mix in Gaines County, TX.

DO NOT apply this mix to sandy or loamy sand soils.

DO NOT apply this mix to Taloka silt loam.

DO NOT apply this mix where water may pond over the application site.

DO NOT make broadcast applications of this tank mix to cotton planted in furrows deeper than 2 inches.

DO NOT make band applications that exceed the width of the bottom of the furrow.

Using Cotoran after using a systemic insecticide at planting may cause crop injury.

Application Instructions

Apply this product mixed with Cotoran DF as a directed, semi-directed or over-the-top treatment either post-emergence to cotton but pre-emergence to weeds for control of the weeds listed in both labels, or post-emergence to weeds for control of the weeds in the Cotoran DF label, using the following rates as appropriate for you location and soil type:

Coil Tuno	Use Rates		
Soil Type	Moccasin Herbicide	Cotoran DF*	
AR, LA, MO (Bootheel), MS and TN			
Sandy Loam Loam, Silt Loam, Silt Fine Soils	0.5-1.0 pt/A 0.6-1.3 pts/A 1.0-1.3 pts/A	1.2 lbs/A 1.2-1.9 lbs/A 1.9-2.4 lbs/A	
Eastern OK, Gulf Coast, Rio Grande Valley and Eastern TX			
Sandy Loam Loam, Silt Loam, Silt Fine Soils	0.8-1.0 pt/A 1.0-1.3 pts/A 1.3 pts/A	1.2 lbs/A 1.2-1.9 lbs/A 1.9-2.4 lbs/A	

^{*}If using Cotoran 4L multiply the pounds of Cotoran DF listed by 1.7 to determine pints of Cotoran 4L.

Special Mixing Instructions

- 1. Fill the spray tank 1/4 full with water or fluid fertilizer and begin agitating.
- 2. Add the Cotoran DF and agitate until fully dispersed.
- 3. Add X-77[®] at a rate of 4 pints per 100 gallons of mixture.
- 4. Add Moccasin Herbicide.
- 5. Add the rest of the water and maintain agitation through spraying.

POST-EMERGENCE

Apply this product mixed with Cotoran DF as a directed, semi-directed or over-the-top treatment either post-emergence to cotton but pre-emergence to weeds for control of the weeds listed in both labels, and post-emergence to weeds for control of the weeds in the Cotoran DF label. This product will not control emerged weeds, but will provide pre-emergence control of the species in this label. Where rate ranges are given for Cotoran DF, use the higher rate when applying post-emergence to weeds that are 2 inches or less. These treatments may be applied over previous registered treatments as long as the maximum label rate of any product is not exceeded.

Do not make broadcast applications of this product to cotton planted in furrows more than 2 inches deep to avoid possible crop damage due to concentration of this product in the seed furrow. For the same reason, the width of a band application to furrows more than 2 inches deep must not exceed the width of the bottom of the furrow.

TANK MIXTURE WITH COTORAN, PARAQUAT AND/OR GLYPHOSATE

(Minimum-till; No-till Systems)

In minimum-tillage or no-tillage systems where cotton is planted directly into a cover crop, stale seedbed, or previous crop residues, tank mix Moccasin Herbicide with Cotoran and a contact burndown such as paraquat or glyphosate to control most emerged weeds and suppress many perennial weeds.

Use Restrictions

DO NOT use this mix in Gaines County, TX.

DO NOT apply this mix to sandy or loamy sand soils.

DO NOT apply this mix where water may pond over the application site.

Crop injury may result if heavy rain occurs shortly after application, especially in poorly drained areas where water stands for several days or where the seeding slit has not been properly closed.

Refer to the Cotoran label for additional use restrictions and precautions.

Instructions

Refer to **MIXING INSTRUCTIONS** under **TANK MIXTURE WITH COTORAN DF** section as well as the respective tank mix labels and be sure to follow the most restrictive combination of instructions, precautions and restrictions from all tank mix partners.

PARAQUAT BRANDS

Apply as directed on the product label. NOTE: This treatment will NOT control weeds taller than 6 inches. DO NOT apply combinations containing paraquat brands in suspension-type liquid fertilizers because the activity of the active ingredient (paraquat) is reduced.

GLYPHOSATE BRANDS

Due to compatibility problems, DO NOT apply Moccasin Herbicide + Cotoran 4L + glyphosate in tank mixture.

Application

Apply a tank mix with paraquat or glyphosate brands as directed on the product label before, during, or after planting, but prior to cotton emergence. Apply Moccasin Herbicide at a rate of at 0.8-1.0 pts/A on sandy loams, medium, and fine-textured soils. Refer to the **TANK MIXTURE WITH COTORAN DF** section for application rates for this product with Cotoran.

Apply with ground equipment using 20-60 gallons of water or fluid fertilizer per acre.

If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days, or where the seeding slit has not been properly closed.

TANK MIXTURE WITH MSMA, MSMA + CAPAROL, OR MSMA + COTORAN

Do NOT use this product in tank mixes with premixes of MSMA plus herbicides other than those registered for use in tank mixture with Moccasin Herbicide on cotton.

This product may be combined with MSMA and applied as a post-emergence directed treatment to control weeds listed in the MSMA product label as well as residual control of pre-emergent weeds listed in this label. Adding Caparol or Cotoran will also control the weeds listed in the respective labels.

POST-EMERGENCE-DIRECTED (AL, AR, AZ, CA, FL, GA, LA, MS, NC, NM, OK, SC, TN, TX, VA, and Bootheel of MO)

Apply this product tank mixed with MSMA as a post-emergence directed treatment to cotton that is at least 3 inches tall. Do NOT apply after first cotton bloom. Treatments may be made over previous treatments provided the maximum label rate of any product is not exceeded. If mixed with Caparol or Cotoran, follow the mixing instructions for Moccasin Herbicide + Caparol or Cotoran in this label and then add the MSMA.

TANK MIXTURE WITH TREFLAN FOR POST-DIRECTED FOLLOWED BY SOIL INCORPORATION APPLICATIONS

For improved late-season weed control, this product may be applied tank mixed with Treflan as an incorporated lay-by treatment. Prior to making this application, the cotton must be at least 3 inches tall and have reached the 4 true-leaf stage. Aim the directed application to the soil surface and away from the crop foliage followed by a shallow (2 inches or less), uniform incorporation using a sweep or rolling type cultivator. Be sure to follow the most restrictive combination of instructions, restrictions and precautions found in each of the tank mix product labels.

TANK MIXTURE WITH GLYPHOSATE FOR USE ON GLYPHOSATE TOLERANT (e.g. Roundup Ready) COTTON ONLY

Use Restrictions

DO NOT use this mix in Sand or Loamy Sand soils in Gaines County, TX.

DO NOT apply this tank mixture post-emergence to any variety of cotton unless it is designated Roundup Ready or glyphosate tolerant and unless the glyphosate formulation being used is registered for post-emergence use in Roundup Ready or glyphosate tolerant cotton.

DO NOT apply glyphosate post-emergence over-the-top to cotton past the growth stage limit specified on their respective labels.

If this tank mix will be applied post-emergence over-the-top, DO NOT add additional spray adjuvants, surfactants, fertilizer additives, or pesticides to this tank mixture or unacceptable injury may result.

Instructions

This product may be tank mixed in water with glyphosate and applied as a post-emergence over-the-top or post-emergence directed treatment to control emerged weeds listed on the glyphosate labels while providing residual pre-emergence control of weeds listed in this label. Refer to **POST-EMERGENCE** in **COTTON – MOCCASIN HERBICIDE ALONE** section of this label for rates and timings of this product and refer to the glyphosate label for their respective rates, application method, and application timing restrictions. Be sure to follow the most restrictive combination of instructions, restrictions and precautions found in each of the tank mix product labels.

NOTE: Post-emergence over-the-top applications of this tank mixture may cause necrotic spotting on cotton leaves that are exposed to the treatment. This will not affect normal plant development.

TANK MIXTURE WITH INTERLINE HERBICIDE FOR USE ON GLUFOSINATE TOLERANT (e.g. LibertyLink) COTTON ONLY

Use Restrictions

DO NOT use this mix in Sand or Loamy Sand soils in Gaines County, TX.

DO NOT apply this tank mixture post-emergence to any variety of cotton unless it is designated LibertyLink or glufosinate tolerant and unless the glufosinate formulation being used is registered for post-emergence use in LibertyLink or glufosinate tolerant cotton.

DO NOT apply glufosinate post-emergence over-the-top to cotton past the growth stage limit specified on their respective labels.

If this tank mix will be applied post-emergence over-the-top, DO NOT add additional spray adjuvants, surfactants, fertilizer additives, or pesticides to this tank mixture or unacceptable injury may result.

Instructions

This product may be tank mixed in water with Interline herbicide (or another glufosinate product) and applied as a post-emergence over-the-top or post-emergence directed treatment to control emerged weeds listed on the Interline herbicide (or glufosinate product) label while providing residual pre-emergence control of weeds listed in this label. Refer to **POST-EMERGENCE** in **COTTON – MOCCASIN HERBICIDE ALONE** section of this label for rates and timings of this product and refer to the Interline herbicide (glufosinate product) label for their respective rates, application method, and application timing restrictions. Be sure to follow the most restrictive combination of instructions, restrictions and precautions found in each of the tank mix product labels.

NOTE: Post-emergence over-the-top applications of this tank mixture may cause necrotic spotting on cotton leaves that are exposed to the treatment. This will not affect normal plant development.

SOYBEANIMMATURE SEED

Application Methods

PRE-PLANT SURFACE APPLIED; PRE-PLANT INCORPORATED; PRE-EMERGENT

This product may be used to control or suppress grass and small-seeded broadleaf weeds in immature-seed soybean or other food-grade soybeans. This product will not control emerged weeds.

Use Restrictions

DO NOT apply more than 2 pts/A of Moccasin Herbicide in a single crop per year. DO NOT use for forage within 60 days of application.

DO NOT cut for hay within 120 days of application.

Application Rates

Coarse Soils less than 3% Organic Matter: 1.0-1.3 pts/A Coarse Soils greater than, equal to 3% Organic Matter: 1.3 pts/A

Medium Soils less than 3% Organic Matter: 1.3-1.6 pts/A

Medium Soils greater than, equal to 3% Organic Matter: 1.3-1.6 pts/A

Fine Soils less than 3% Organic Matter: 1.3-1.6 pts/A

Fine Soils greater than, equal to 3% Organic Matter: 1.6-1.9 pts/A

PRE-PLANT SURFACE-APPLIED

For soybean grown in minimum- or no-tillage systems, this product may be applied alone up to 45 days prior to planting. For applications made 30-45 days prior to planting, make only split applications using 2/3 the listed broadcast rate in the initial application and the remaining 1/3 when planting. Treatments made less than 30 days prior to planting may be applied as either a single or split application.

Tank mixing this product with a contact herbicide such as Interline herbicide, paraquat or glyphosate brands is recommended if weeds are already present when making the application. The most restrictive combination of instructions, precautions and restrictions must be followed from all of the tank mix partners when tank mixing multiple products.

For best results, when planting the soil that has been treated must not be moved out of the rows and untreated soil must not be moved into the rows.

PRE-PLANT INCORPORATED

When furrow irrigation is being used or dry weather is expected after the treatment, within 14 days of planting apply this product and incorporate into the top 2 inches of soil using equipment that will provide uniform incorporation such as a harrow, rolling cultivator or finishing disk. If crops are planted in beds, the application should be made after the beds have been formed.

PRE-EMERGENCE

Either apply this product prior to weed emergence at planting, or prior to weed and crop emergence after planting.

GRASSES GROWN FOR SEED

(ID, OR, WA)

Application Methods

PRE-EMERGENCE

Moccasin Herbicide provides pre-emergence control and/or suppression of volunteer seedlings of perennial ryegrass, fine fescue spp., tall fescue, orchardgrass, bentgrass and Kentucky bluegrass in addition to the weed species listed in the **Stand-Alone Application of this Product** section at the beginning of this label, and will suppress or control rattail fescue, annual bluegrass, Italian ryegrass, California brome, downy brome, and roughstalk bluegrass. Hay may be harvested anytime between seed harvest and the next application of Moccasin Herbicide or another product containing *S-metolachlor*.

Use Restrictions

DO NOT apply this product more than once per crop year.

West of the Cascades, within 60 days after application D0 NOT graze forage regrowth.

East of the Cascades, within 150 days after application D0 NOT graze forage regrowth.

Application Instructions

This product may be applied prior to target weed/grass emergence to established tall fescue, orchardgrass, perennial ryegrass, fine fescue, bentgrass, and Kentucky bluegrass grown for seed that has been established at least one year, or that has had at least one seed harvest. Application should be made just before or during a late summer or early fall irrigation or just before, during, or immediately following the first fall rains.

Prior to application, the post-harvest residue should be evenly spread, removed from the field or burned. For best results, irrigation or precipitation after application but prior to weed emergence is recommended. Control may be diminished if excessive straw from the previous harvest is present at application and/or insufficient rainfall/irrigation occurs.

Apply this product at the rates listed below in a minimum of 10 gallons of water per acre using ground equipment:

Fine Fescue spp. and Perennial Ryegrass: 1.0 pts/A

Bentgrass, Kentucky Bluegrass, Orchardgrass and Tall Fescue: 1.0-1.3 pts/A **NOTES:** Application after the 15th of November may result in poor control.

Adding an adjuvant or tank mixing with other pesticides may increase the likelihood of crop injury.

Applications made to perennial ryegrass and fine fescue stands experiencing stress may cause crop injury.

HORSERADISH

Horseradish should be harvested at normal timing. This product does not control emerged weeds, and they must be controlled using mechanical means or using a foliar herbicide registered for use on horseradish.

Use Restrictions

DO NOT apply this product more than once per crop year.

DO NOT apply more than 1.3 pts/A per crop year.

Application Instructions

After planting but before weeds or crop emerge, make a single 1.0-1.3 pts/A application of this product to the soil surface. Use higher rates on fine-textured soils and lower rates on soils relatively coarse-textured.

If a band application is used, proportionally less spray mixture must be applied to the treated area.

PEANUTS MOCCASIN HERBICIDE ALONE

Application Methods

PRE-PLANT INCORPORATED, POST-PLANT INCORPORATED, PRE-EMERGENCE, LAY-BY

When used according to their label use rates, directions, and restrictions, this product may be applied as directed after any of the following pre-plant incorporated herbicides: Balan; Treflan; Satellite, Sonalan; Pursuit; or Prowl.

Use Restrictions

DO NOT graze or feed peanut forage or fodder to livestock within 30 days of application.

DO NOT apply within 90 days of harvest.

PRE-PLANT INCORPORATED OR PRE-EMERGENCE

Follow instructions for use of **Moccasin Herbicide Alone** under **APPLICATION PROCEDURES**.

POST-PLANT INCORPORATED

Apply and shallowly incorporate this product into the soil after planting, but prior to peanut germination. Seed will be damaged if the incorporation depth and incorporating equipment reaches the seed level.

LAY-BY

Apply Moccasin Herbicide to the soil immediately after the last normal cultivation.

Application Rates

NM, OK, and TX: 0.8-1.3 pts/A Southeast*: 1.0-1.3 pts/A

*Use 1.3-1.9 pts/A for partial control of Florida Beggarweed.

PEANUTS MOCCASIN HERBICIDE COMBINATIONS

TANK MIXTURE WITH BALAN L.C.

Application Methods

PRE-PLANT INCORPORATED, PRE-EMERGENCE BEFORE GROUND CRACKING, LAY-BY

Apply 1.0-1.3 pts/A Moccasin Herbicide and the labeled use rate of Balan in a minimum of 10 gallons of spray volume per acre for ground application or a minimum of 5.0 gallons of spray volume per acre for aerial application. Be sure to follow the most restrictive combination of instructions, precautions and restrictions from each label. Apply and incorporate this tank mix up to 14 days prior to planting.

Use Restrictions

DO NOT apply more than 2.7 pounds of *S-metolachlor* (the active ingredient in this product) per acre in a single year.

DO NOT use Moccasin Herbicide after peanuts have emerged.

DO NOT feed or graze peanut forage or fodder to livestock within 30 days of application.

DO NOT apply within 90 days of harvest.

Southeast Only (AL, FL, GA, NC, SC, VA)

PRE-PLANT INCORPORATED

Make a pre-plant incorporated application of this product as directed under **PEANUTS – MOCCASIN HERBICIDE ALONE** or make a pre-plant incorporated application of this product + Balan as directed previously in this section. Refer to the respective sections for a list of weeds controlled.

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PRE-EMERGENCE BEFORE "GROUND CRACKING"

For extended weed control when weeds have not yet emerged, apply 1.0-1.9 pts/A anytime from pre-emergence until "ground cracking". Refer to the **Moccasin Herbicide Applied Alone** section of this label for a list of weeds controlled.

Follow the Pre-plant Incorporated or Pre-emergence application by Lay-By

Only when late germinating weeds are anticipated, apply this product at layby as directed in the **PEANUTS – MOCCASIN HERBICIDE ALONE** section. Refer to the **Moccasin Herbicide Applied Alone** section for a list of weeds controlled.

Southwest Only (NM, OK, TX)

FIRST APPLICATION

Make a pre-plant incorporated or pre-emergence before "ground cracking" application of this product as instructed previously in this section. Refer to the respective section for a list of weeds controlled.

SECOND APPLICATION

Only when late germinating weeds are anticipated, apply this product at layby as directed in the **PEANUTS – MOCCASIN HERBICIDE ALONE** section. Refer to the **Stand-Alone Application of this Product** section for a list of weeds controlled.

TANK MIXTURE OR SEQUENTIALLY WITH PURSUIT

Tank mixing with, or following an application of, Pursuit with this product will control all weeds listed as controlled in the labels for both products. Refer to the **Moccasin Herbicide Applied Alone** section for weeds controlled by Moccasin Herbicide and to the Pursuit label for weeds controlled by Pursuit.

Refer to the respective labels for application methods, timing and rates, being sure to use the most restrictive combination of restrictions and precautions from each label. DO NOT use more than the maximum label rate of either product.

TANK MIXTURE WITH SONALAN

Tank mixing Sonalan with this product will control all weeds listed as controlled in the labels for both products. Refer to the **Moccasin Herbicide Alone** section for weeds controlled by Moccasin Herbicide and to the Sonalan label for weeds controlled by Sonalan.

Make a pre-plant incorporated application of Moccasin Herbicide tank mixed with Sonalan using the appropriate use rates listed below. Be sure to follow the instructions for soil preparation listed in the Sonalan label.

Soil Toyturo	Soil Texture Use Rates Moccasin Herbicide Sonalan		
Juli Texture			
	Southeast		
Coarse Medium Fine	1.0-1.3 pts/A 1.0-1.3 pts/A 1.0-1.3 pts/A	1.3-2.0 pts/A 1.7-2.5 pts/A 2.3-3.0 pts/A	
	NM, OK, TX		
Coarse Medium Fine	0.8-1.3 pts/A 0.8-1.3 pts/A 0.8-1.3 pts/A	1.3-2.0 pts/A 1.7-2.5 pts/A 2.3-3.0 pts/A	

Refer to the respective labels for application methods, timing and rates, being sure to use the most restrictive combination of restrictions and precautions from each label. DO NOT use more than the maximum label rate of either product.

TANK MIXTURE WITH SATELLITE HYDROCAP

A tank mix of this product with Satellite HydroCap or Prowl $\rm H_2O$ will control all weeds listed in this label as well as Texas Panicum, field sandbur, johnsongrass (from seed), lambsquarters, kochia, annual spurge and other weeds listed in the Satellite label.

Apply by ground or air within 14 days of planting as a pre-plant incorporated treatment using the appropriate rates listed in the table below. Within 7 days of application incorporate the top 1-2 inches of soil with equipment that provides uniform incorporation like a finishing disk. If the peanuts are to be planted in beds, the application and incorporation should be made after the beds are formed. Refer to the **Incorporation** instructions in each label for additional information.

Soil Texture	Use Rates	
	Moccasin Herbicide	Satellite HydroCap
NM, OK, TX		
Sand and Loamy Sand Sandy Loam Fine Soils	0.8 pt/A 0.8-1.0 pts/A 1.0-1.3 pts/A	1.0-2.05 pts/A 1.0-2.05 pts/A 1.0-2.0 pts/A
Other Peanut Growing States		
Sand and Loamy Sand Sandy Loam Fine Soils	1.0-1.3 pts/A 1.0-1.3 pts/A 1.3 pts/A	2.0 pts/A* 2.0 pts/A* 2.0 pts/A*

^{*}For heavy weed infestations, especially of Texas panicum, up to 3.2 pts/A of **Satellite HydroCap herbicide** can be used in Alabama, Florida and Georgia. Refer to the respective labels for application methods, timing and rates, being sure to use the most restrictive combination of restrictions and precautions from each label. DO NOT use more than the maximum label rate of either product.

TANK MIXTURE OR SEQUENTIALLY WITH PARAQUAT BRANDS OR PARAQUAT BRANDS + PRODUCTS CONTAINING BENTAZON, SUCH AS BROADLOOM

Small (1-6 inches) emerged annual grass and broadleaf weeds are controlled or suppressed and residually controlled by this product mixed with paraquat brands or paraquat brands and Broadloom herbicide applied at ground cracking or sequentially. Refer to the **Moccasin Herbicide Applied Alone** section of this label for a complete list of weeds controlled or suppressed.

Using the rates in the paraquat brand and Broadloom labels and the **PEANUTS** – **MOCCASIN HERBICIDE ALONE** section of this label, apply using ground equipment in a minimum of 20 gallons of spray volume per acre. A second application of this mix may be made 28 days after ground cracking, being sure to follow all restrictions in **MULTIPLE APPLICATIONS** in **PEANUTS** – **MOCCASIN HERBICIDE COMBINATIONS** section of this label.

Refer to the respective labels for application methods, timing and rates, being sure to use the most restrictive combination of restrictions and precautions from each label. DO NOT use more than the maximum label rate of either product.

TANK MIXTURE OR SEQUENTIALLY WITH PRODUCTS CONTAINING BENTAZON, SUCH AS BROADLOOM

The weeds listed in the Broadloom label will be controlled and the weeds listed in this label residually controlled by this product when applied with Broadloom as a tank mix or sequentially. Refer to the Broadloom label and the **Moccasin Herbicide Applied Alone** section of this label for a complete list of weeds controlled or suppressed.

Using the rates in the Broadloom label and the **PEANUTS – MOCCASIN HERBICIDE ALONE** section of this label, apply using ground equipment in a minimum of 20 gallons of spray volume per acre. A second application of this mix may be made prior to peanut pegging, being sure to follow all restrictions in **MULTIPLE APPLICATIONS** in **PEANUTS – MOCCASIN HERBICIDE COMBINATIONS** section of this label. If necessary, a second Basagran-only application may be made in any peanut growing area.

Refer to the respective labels for application methods, timing and rates, being sure to use the most restrictive combination of restrictions and precautions from each label. DO NOT use more than the maximum label rate of either product.

TANK MIXTURE OR SEQUENTIALLY WITH PARAQUAT BRANDS + BUTYRAC 200 OR BUTOXONE 200

Small (1-6 inches) emerged annual grass and broadleaf weeds are controlled or suppressed and residually controlled by this product mixed with paraquat brands and Butyrac 200 or Butoxone 200 applied at ground cracking or sequentially. Refer to the **Moccasin Herbicide Applied Alone** section of this label for a complete list of weeds controlled or suppressed.

Using the rates in the paraquat brands and Butyrac 200 or Butoxone 200 labels and the **PEANUTS – MOCCASIN HERBICIDE ALONE** section of this label, apply using ground equipment in a minimum of 20 gallons of spray volume per acre. A second application of this mix may be made 28 days after ground cracking, being sure to follow all restrictions in **MULTIPLE APPLICATIONS** in **PEANUTS – MOCCASIN HERBICIDE COMBINATIONS** section of this label.

Refer to the respective labels for application methods, timing and rates, being sure to use the most restrictive combination of restrictions and precautions from each label. DO NOT use more than the maximum label rate of any of the products.

TANK MIXTURE OR SEQUENTIALLY WITH PRODUCTS CONTAINING BENTAZON, SUCH AS BROADLOOM + BUTYRAC 200 OR BUTOXONE 200

Weeds listed in the Broadloom and Butyrac 200 or Butoxone 200 labels (especially morningglory) are controlled or suppressed and the weeds listed in this label residually controlled by this product mixed with Broadloom and Butyrac 200 or Butoxone 200 applied at ground cracking or sequentially. Refer to the **Moccasin Herbicide Applied Alone** section of this label for a complete list of weeds controlled or suppressed.

Using the rates in the Broadloom and Butyrac 200 or Butoxone 200 labels and the **PEANUTS – MOCCASIN HERBICIDE ALONE** section of this label, apply using ground equipment in a minimum of 20 gallons of spray volume per acre. A second application of this mix may be made prior to peanut pegging, being sure to follow all restrictions in **MULTIPLE APPLICATIONS** in **PEANUTS – MOCCASIN HERBICIDE COMBINATIONS** section of this label. If necessary, a second Broadloom and Butyrac 200 or Butoxone 200 application may be made in any peanut growing area.

Refer to the respective labels for application methods, timing and rates, being sure to use the most restrictive combination of restrictions and precautions from each label. DO NOT use more than the maximum label rate of any of the products.

TANK MIXTURE OR SEQUENTIALLY WITH STORM

Weeds listed in the Storm label are controlled or suppressed and the weeds listed in this label residually controlled by this product mixed with Storm applied at ground cracking through 2 expanded tetrafoliate leaves, or sequentially with an at-cracking through post emergence treatment of Storm. Refer to the **Moccasin Herbicide Applied Alone** section of this label for a complete list of weeds controlled or suppressed. Apply using the rates and instructions in the Storm label and the **PEANUTS – MOCCASIN HERBICIDE ALONE** section of this label.

Refer to the respective labels for application methods, timing and rates, being sure to use the most restrictive combination of restrictions and precautions from each label. DO NOT use more than the maximum label rate of any of the products.

BEANS, PEAS, AND LENTILS MOCCASIN HERBICIDE ALONE

Application Methods

FALL APPLIED, PRE-PLANT INCORPORATED, PRE-EMERGENCE

Moccasin Herbicide may be applied pre-plant incorporated or pre-emergence to beans, peas, and lentils including garbanzo, great northern beans, kidney beans, lima beans, mung beans, navy beans, peas (English; southern peas, such as blackeye, pinkeye, crowder, etc.), pinto beans, snap beans (green, wax, string), lentils, and lupines (sweet, white, white sweet, and grain).

NOTE: Make ONLY pre-emergence applications to English peas.

Use of this product when soils are cold and wet during pea germination and emergence may delay maturity and/or reduce yields.

Use Restrictions

DO NOT apply to frozen ground.

DO NOT cut for hay within 120 days after application.

DO NOT use for forage within 60 days after application.

DO NOT apply more than 1.9 pts/A per year.

FALL APPLICATION

MN, ND, SD, WI and north of Route 30 in IA: Apply after September 30.

South of Route 30 in IA and North of Route 91 in NE: Apply after October 15.

North of Route 136 in IL: Apply after October 31.

Apply to crop stubble after harvest when the sustained soil temperature at a 4-inches depth is less than 55°F and falling. In minimum- or no-tillage systems with soils having greater than 2.5% organic matter, apply 1.6-1.9 pts/A on medium-textured soils, and 1.9 pts/A on fine-textured soils. Tilling may be performed before or after treatment; however, if tilled after treatment do not incorporate deeper than 2-3 inches. If an application is planned for the following spring in addition to the fall application, the total amount applied in both applications must not exceed the maximum total amount listed in the instructions for the specific crop.

SPRING APPLICATION

Apply this product as either a pre-plant incorporated or pre-emergence treatment using the appropriate rates listed below and using the instructions in the **Moccasin Herbicide Alone** section under **APPLICATION PROCEDURES** at the beginning of this label.

Coarse Soils less than 3% Organic Matter: 1.01.3 pts/A Coarse Soils greater than, equal to 3% Organic Matter: 1.3 pts/A

Medium Soils less than 3% Organic Matter: 1.3-1.6 pts/A

Medium Soils greater than, equal to 3% Organic Matter: 1.3-1.6 pts/A

Fine Soils less than 3% Organic Matter: 1.3-1.6 pts/A

Fine Soils greater than, equal to 3% Organic Matter: 1.6-1.9 pts/A

BEANS, PEAS, AND LENTILS MOCCASIN HERBICIDE COMBINATIONS

Use Restrictions

DO NOT cut for hay within 120 days after application.

TANK MIXTURE AND SEQUENTIAL APPLICATIONS WITH EPTAM – BEANS (GREEN OR DRY)

PRE-PLANT INCORPORATED

Follow instructions for use of Moccasin Herbicide alone in the **APPLICATION PROCEDURES** section of this label. Refer to Eptam herbicide label for use rates and instructions.

SEQUENTIAL

Make a pre-plant incorporated application of Eptam alone following the rates and instructions in the Eptam label, followed by a pre-emergence application of this product using the rates specified below either during planting (behind the planter) or after planting, but prior to weed emergence.

Coarse Soils less than 3% Organic Matter: 0.8 pts/A

Coarse Soils greater than, equal to 3% Organic Matter: 1.0 pts/A

Medium Soils less than 3% Organic Matter: 1.0 pts/A

Medium Soils greater than, equal to 3% Organic Matter: 1.3 pts/A

Fine Soils less than 3% Organic Matter: 1.3 pts/A

Fine Soils greater than, equal to 3% Organic Matter: 1.3-1.6 pts/A

Be sure to follow the most restrictive combination of instructions, precautions and restrictions from both the Eptam label and for this product as listed in the **BEANS, PEAS, AND LENTILS – MOCCASIN HERBICIDE ALONE** section of this label. Refer to the Eptam label for rate limitations depending on geographical area, and for restrictions specific to species and varieties.

TANK MIXTURE WITH TREFLAN – BEANS (DRY – KIDNEY, NAVY, PINTO, ETC. LIMA; AND SNAP)

Tank mix Moccasin Herbicide using the rates specified in the **Moccasin Herbicide Alone** section of this label, and the **DRY BEANS** or the **LIMA AND SNAP BEANS** sections of the Treflan label by ground or air within 14 days of planting and incorporate uniformly to a depth of no more than 2 inches. The application rate used should be selected based on the soil texture and organic matter present in the field and the weed species being treated.

Be sure to follow the most restrictive combination of instructions, restrictions and precautions in each respective label.

POTATOES MOCCASIN HERBICIDE ALONE

These instructions do NOT apply to sweet potatoes or yams.

Application of this product followed by cool, wet soil conditions may delay maturity and/or reduce yield of Superior and other early maturing potato varieties.

This product will control weeds listed in the **WEEDS CONTROLLED** section of this label when applied after hilling/lay-by as either a pre-emergence incorporated, or post-emergence treatment to potatoes. Use the lower rates specified below on soils that are coarse-textured and/or low in organic matter and the higher rates on soils that are fine-textured and/or high in organic matter. NOTE: If agricultural activity following the treatment exposes untreated soil, the effectiveness of this application will be diminished.

Refer to the **Center Pivot Irrigation Application** section of this label for instructions when applying this product using center pivot irrigation.

Use Restrictions

DO NOT harvest within 40 days of a lay-by application.

DO NOT harvest within 60 days of an at-planting to drag-off application.

DO NOT use on muck or peat soils.

DO NOT apply as both a pre-emergence and incorporated treatment.

INCORPORATED

Apply to the soil at a rate of 1.0-1.9 pts/A and incorporate into the top 3 inches of soil using equipment that will provide uniform incorporation such as a finishing disk, harrow or rolling cultivator.

Post-plant incorporated applications may be made any time after planting to drag-off but prior to potato emergence. Incorporate using equipment that will uniformly distribute the application in the top 2 inches of the soil being careful not to damage potato seed pieces or sprouts.

PRE-EMERGENCE

Apply at a rate of 1.0-1.9 pts/A after planting but before weeds emerge as either a pre-emergence or delayed pre-emergence treatment or an after drag-off or hilling treatment. When soil organic matter content is between 6-20%, up to 2.5 pts/A may be applied.

POST-EMERGENCE AFTER HILLING/LAY-BY

To control weed species sensitive to this product for the remainder of the growing season, apply at a rate of 1.6 pts/A as a post-emergence treatment to potatoes after hilling/at lay-by. This application may be applied over a previous Moccasin Herbicide application, but do NOT apply more than 3.4 pts/A in a single crop season.

POTATOES MOCCASIN HERBICIDE COMBINATIONS

These instructions do NOT apply to sweet potatoes or yams.

TANK MIXTURE WITH TRICOR

Tank mix with TriCor herbicide to control the weeds listed in this label as well as the following broadleaf weeds: cocklebur*, hairy nightshade*, hemp sesbania, jimsonweed*, lambsquarters, prickly sida, ragweed, smartweed, velvetleaf, Venice mallow, and wild mustard.

Use Restrictions

DO NOT apply this tank mixture to muck or peat soils.

Instructions

Apply 1.0-1.9 pts/A of Moccasin herbicide with the labeled rate of TriCor herbicide and apply as a pre-emergence or post-emergence treatment through after last hilling. The 1.0-1.3 pts/A rate range should be used on coarse soils and 1.3-1.9 pts/A rate range on other soil textures, with the lower rates of the range used on fields with low organic matter and the higher rates of the range used on fields with higher organic matter content. The effectiveness of the treatment may be diminished if subsequent operations disturb and expose untreated soil.

Refer to the TriCor label for precautionary statements, restrictions, application information, center pivot irrigation application, weeds controlled, and varietal limitations.

Precaution: To avoid chlorosis, minor necrosis, or leaf distortion when making post-emergence applications to potatoes, with the exception of center pivot application the application must be made as a directed or semi-directed spray.

The most restrictive combination of instructions, precautions and restrictions from both product labels must be followed.

MOCCASIN HERBICIDE + LOROX TANK MIXTURE (EAST OF ROCKY MOUNTAINS)

Use Restrictions

DO NOT use on sand or loamy sand soils.

DO NOT incorporate or spray over the top of emerged potatoes.

Application

This product may be tank mixed with any Lorox formulation registered for use on potatoes and applied using the following rates as a pre-emergence broadcast application to the soil surface after planting but prior to emergence of the crop, or after final drag-off.

Soil Texture	Use Rates	
	Moccasin Herbicide	Lorox*
	1% - < 3% Organic Ma	atter
Coarse Medium	1.0 pt/A 1.3 pts/A	1.0-1.5 lbs/A 1.5-2.0 lbs/A
3% - 5% Organic Matter		
Coarse Medium	1.3 pts/A 1.6-1.9 pts/A	1.5-2.0 lbs/A 2.0-2.5 lbs/A

^{*}When using Lorox L or Lorox DF, one pint of Lorox L equals 1 pound of Lorox DF.

The most restrictive combination of instructions, precautions and restrictions from both product labels must be followed.

TANK MIXTURE WITH SATELLITE HYDROCAP

When tank mixed with Satellite HydroCap (or Prowl H_20), the following weeds will be controlled in addition to the weeds listed in this label: kochia, lambsquarters, purslane, annual spurge, stinging nettle, and others specified on the Satellite HydroCap or Prowl H_20 label. Apply using the following rates as a pre-emergence, pre-emergence incorporated or early post-emergence application following the instructions in the Satellite HydroCap or Prowl H_20 label.

Soil Texture	Use Rates	
Son rexture	Moccasin Herbicide	Satellite HydroCap*
	< 3% Organic Matte	er
Coarse Medium Fine	1.0-1.3 pts/A 1.3 pts/A 1.3-1.6 pts/A	1.5 pts/A 2.0 pts/A 3.0 pts/A
≥ 3% Organic Matter		
Coarse Medium Fine	1.0-1.3 pts/A 1.3-1.6 pts/A 1.6-1.9 pts/A	1.5 pts/A 3.0 pts/A 3.0 pts/A

^{*}When using other formulations of Satellite, use equivalent rates of active ingredient.

The most restrictive combination of instructions, precautions and restrictions from both product labels must be followed.

PUMPKIN MOCCASIN HERBICIDE ALONE

Applying this product to pumpkin as a broadcast spray over the planted row or hill or as an application directly to crop foliage increases the risk of injury and may cause delayed maturity, stand loss, and loss of yield.

Use Restrictions

DO NOT apply this product within 30 days of harvest.

PRE-EMERGENCE

Apply this product pre-emergence at a rate of 1.0-1.3 pts/A as an inter-row or inter-hill treatment. Inter-row or inter-hill means not applying directly to the planted seed or young pumpkin plants. When applying, there should be 1 foot of untreated area over the top of the row where the plants are, or six inches to each side of the planted hill and any emerged pumpkin foliage.

Use the lower rates listed on soils that are coarse and/or low (less than 3%) in organic matter.

^{*} Indicates partial control.

RHUBARB

Use Restrictions

DO NOT make more than one application per crop.

DO NOT apply more than 1.3 pts/A per year

DO NOT harvest within 62 days of application.

Application

In early spring prior to crop emergence, make a broadcast application of this product at a rate of 0.6-1.3 pts/A using lower rates on coarse-textured soils and higher rates on fine-textured soils.

SAFFLOWER MOCCASIN HERBICIDE ALONE

PRE-PLANT INCORPORATED OR PRE-EMERGENCE

Using the rates below, follow the instructions for use of **Moccasin Herbicide Alone** under **APPLICATION PROCEDURES** at the beginning of this label:

Soil Texture	Use Rates Moccasin Herbicide
< 3% Organic Matter	
Coarse Medium Fine	1.0-1.3 pts/A 1.3-1.6 pts/A 1.3-1.6 pts/A
≥ 3% Organic Matter	
Coarse Medium Fine	1.3 pts/A 1.3-1.6 pts/A 1.6-1.9 pts/A

GRAIN OR FORAGE SORGHUM (SEED TREATED WITH CONCEP®)

MOCCASIN HERBICIDE ALONE

This product may be applied alone as a pre-plant surface, pre-plant incorporated, pre-emergence or post-emergence treatment using the appropriate rate specified below ONLY when the sorghum seed has been properly treated with Concep seed treatment. Plant death will occur if pre-plant or pre-emergence applications of this product are made to sorghum that has not been treated with Concep seed treatment, and plants grown from seed not properly treated will also experience severe injury. Plant injury may also occur following pre-plant and pre-emergence applications of this product if high soil moisture conditions are experienced prior to sorghum emergence; however, the crop typically outgrows the damage.

Use Restrictions

DO NOT use this product to sorghum grown under dry mulch tillage.

DO NOT apply this product more than once in a year *except* for the split preplant surface treatment.

DO NOT apply this product post-emergence within 75 days of harvest.

Fall Application for Italian Ryegrass Control

DO NOT apply this product to frozen ground.

If an application of this product is made in the spring, DO NOT apply this or any other product containing *S-metolachlor* to grain or forage sorghum the following spring.

This product may be used to provide residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*) with a fall application of 1.3-1.6 pts/A (between September 1 and December 1). The higher rates should be used on fine-textured soils and the lower rates on coarse-textured soils.

Tillage may be performed prior to application. If planning to till after application, incorporate to a maximum depth of 2-3 inches. If an application is planned for the following spring in addition to the fall application, the total amount of Al applied in both applications must not exceed the maximum total amount listed in the instruction for the specific crop (depending on soil texture, up to 2.5 pts/A).

Fall treatments made after emergence of glyphosate-resistant Italian ryegrass can use paraquat brands tank mixed with this product for control of the emerged ryegrass. Refer to the paraquat brand label for specific rates, application instructions and restrictions. Other registered herbicides may be tank mixed with Moccasin Herbicide for control or improved control of other weeds present at the time of application.

PRE-PLANT SURFACE-APPLIED

Make pre-plant surface-applied treatments of this product following the instructions in the **APPLICATION PROCEDURES** section of this label.

For sorghum grown in minimum- or no-tillage systems in CO, IA, IL, KS, MO, NE and SD: This product may be applied alone up to 45 days prior to planting using the following rates:

Medium Soils: 1.4 pts/A Fine Soils: 1.6 pts/A

For applications made 30-45 days prior to planting, make only split applications using 2/3 the listed broadcast rate in the initial application and the remaining 1/3 when planting. Treatments made less than 30 days prior to planting may be applied as either a single or split application. For coarse soils apply 1.3 pts/A within two weeks prior to planting.

For best results, when no precipitation is expected after application irrigate to move this product into the soil.

PRE-PLANT INCORPORATED OR PRE-EMERGENCE

Make a broadcast application of this product using the application rates below and following the instructions in the **APPLICATION PROCEDURES** section of this label.

Coarse Soils: 1.0-1.3 pts/A Medium Soils: 1.3-1.4 pts/A Fine Soils: 1.3-1.6 pts/A

POST-EMERGENCE

This product is safe to use on emerged sorghum when applied alone. The risk of injury to the crop increases when adjuvants such as non-ionic crop oil, nitrogen sources such as AMS or UAN, or fertilizers are applied in conjunction with this product.

Make a broadcast post-emergence application of this product using the application rates below and following the instructions in the **APPLICATION PROCEDURES** section of this label.

Coarse Soils: 1.0-1.3 pts/A Medium Soils: 1.3-1.4 pts/A Fine Soils: 1.3-1.6 pts/A

GRAIN OR FORAGE SORGHUM (SEED TREATED WITH CONCEP) MOCCASIN HERBICIDE TANK MIXTURES

This product may be tank mixed with atrazine and applied as a pre-plant or pre-emergence treatment using the appropriate rate specified below ONLY when the sorghum seed has been properly treated with Concep seed treatment. Plant death will occur if pre-plant or pre-emergence applications of this product are made to sorghum that has not been treated with Concep seed treatment, and plants grown from seed not properly treated will also experience severe injury. Plant injury may also occur following pre-plant and pre-emergence applications of this product if high soil moisture conditions are experienced prior to sorghum emergence; however, the crop typically outgrows the damage.

Sorghum injury may occur if this product tank mixed with atrazine is applied to highly alkaline soils or on eroded areas where calcareous sub-soils are exposed.

If tank mixing this product with atrazine, the most restrictive combination of rates, restrictions and precautions from both labels must be followed. Broadleaf weed control may be affected if atrazine is applied at rates lower than those listed on this label and the atrazine label should be consulted for a list of weeds controlled at the reduced rates.

Use Restrictions

DO NOT use this product to sorghum grown under dry mulch tillage.

DO NOT apply this product more than once in a year *except* for the split preplant surface treatment.

TANK MIXTURE WITH ATRAZINE

Tank mixing this product with atrazine and applying as a pre-plant surface, pre-plant incorporated or pre-emergence treatment will control the weeds listed in this label as well as the following broadleaf weeds: cocklebur, common purslane, hairy nightshade, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf.

PRE-PLANT SURFACE-APPLIED

Make pre-plant surface-applied treatments of this product using the appropriate rates below and following the instructions in the **APPLICATION PROCEDURES** section of this label.

For sorghum grown in minimum- or no-tillage systems in IA, IL, eastern KS, MO, NE and SD: This product may be applied alone up to 45 days prior to planting using the following rates per acre:

Medium Soils ≥ 1.5% Organic Matter: 1.4 pts/A Moccasin Herbicide + 1.7-2.0 lbs/A Atrazine 90*

Fine Soils < 1.5% Organic Matter: 1.4 pts/A Moccasin Herbicide + 1.7-2.0 lbs/A Atrazine 90*

Fine Soils ≥ 1.5% Organic Matter: 1.6 pts/A Moccasin Herbicide + 2.0-2.2 lbs Atrazine 90*

*While a single formulation for Atrazine is listed in the rate tables, other formulations may be substituted by using the following formula: 1.0 pound of Atrazine 90 = 1.8 pints of Atrazine 4L.

For applications made 30-45 days prior to planting, make only split applications using 2/3 the listed broadcast rate in the initial application and the remaining 1/3 when planting. Treatments made less than 30 days prior to planting may be applied as either a single or split application.

For best results, when no precipitation is expected after application irrigate to move this product into the soil.

PRE-PLANT INCORPORATED OR PRE-EMERGENCE

DO NOT use on coarse soils, or medium soils with < 1.5% organic matter. DO NOT make pre-plant incorporated applications in AZ or the Imperial Valley of CA.

DO NOT apply in NM, OK or TX except in northeast OK and the Gulf Coast and Blacklands of TX.

Make pre-plant incorporated or pre-emergence treatments of this product using the appropriate rates below and following the instructions in the **APPLICATION PROCEDURES** section of this label.

Application rates per acre:

Medium Soils ≥ 1.5% Organic Matter: 1.0 pt/A Moccasin Herbicide + 1.3 lbs Atrazine 90*

Fine Soils < 1.5% Organic Matter: 1.0 pt/A Moccasin Herbicide + 1.3 lbs Atrazine 90*

Fine Soils ≥ 1.5% Organic Matter: 1.1-1.3 pts/A Moccasin Herbicide + 1.6-1.8 pounds of Atrazine 90*

*While a single formulation for Atrazine is listed in the rate tables, other formulations may be substituted by using the following formula: 1.0 pound of Atrazine 90 = 1.8 pints of Atrazine 4L.

TANK MIXTURE OF MOCCASIN HERBICIDE OR MOCCASIN HERBICIDE + ATRAZINE + BURNDOWN HERBICIDE FOR MINIMUM-TILLAGE OR NO-TILLAGE SYSTEMS

In Minimum and No-tillage systems where sorghum (with seed treated with Concep) is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues in a minimum- or no-tillage system, mix with a paraquat brand herbicide for control of most emerged annual weeds and suppression of perennial weeds; or with glyphosate brands for control of most emerged annual and perennial weeds.

Application

Apply a tank mix with paraquat brands, glyphosate as directed on the product label before, during, or after planting, but prior to sorghum emergence.

PARAQUAT BRANDS

Apply as directed on the product label. NOTE: This treatment will NOT control weeds taller than 6 inches.

GLYPHOSATE BRANDS

Refer to the glyphosate brand label for a list of controlled weeds, application rates for specific weeds, and other information related to the use of this product.

SWEET SORGHUM (SEED TREATED WITH CONCEP)

Apply this product as a pre-plant surface, pre-plant incorporated, preemergence or post-emergence treatment at the appropriate rate specified below ONLY when the sorghum seed has been properly treated with Concep seed treatment. Plant death will occur if pre-plant or pre-emergence applications of this product are made to sorghum that has not been treated with Concep seed treatment, and plants grown from seed not properly treated will also experience severe injury.

Use Restrictions

DO NOT make more than one application per season.

DO NOT apply within 90 days of harvest.

DO NOT use this product to sorghum grown under dry mulch tillage.

SOIL-APPLIED

Make soil-applied treatments using this product at the rates specified below up to 45 days prior to planting. For applications made 30-45 days prior to planting, make only split applications using 2/3 the listed broadcast rate in the initial application and the remaining 1/3 when planting. Treatments made less than 30 days prior to planting may be applied as either a single or split application.

For best results, when no precipitation is expected after application irrigate to move this product into the soil.

Soil-Applied Application Rates in Pints per Acre

Application	Soil Type - Use Rates		
Timing	Fine	Medium	Coarse
At Planting ¹	1.3-1.6 pts/A	1.3-1.4 pts/A	1.0-1.3 pts/A
< 30 days before planting	1.6 pts/A	1.4 pts/A	1.3 pts/A
30-45 days before planting ²	1.6 pts/A	1.4 pts/A	_

¹ Pre-plant Incorporated or pre-emergence.

²Use only as a split application with 2/3 of the broadcast rate applied initially and the remaining 1/3 applied at planting.

POST-APPLIED

For residual control of small broadleaf weeds and grasses, apply this product using the appropriate rate specified below as a post-emergence treatment to sorghum no more than 5 inches tall. This product is safe for used on sweet sorghum that has emerged when applied alone. *Do NOT use adjuvants when making post-emergence applications of this product to sweet sorghum.*

Coarse Soils: 1.0-1.3 pts/A Medium Soils: 1.3 pts/A Fine Soils: 1.3 pts/A

SOYBEANS MOCCASIN HERBICIDE ALONE

Application Methods

FALL APPLIED, PRE-PLANT SURFACE, PRE-PLANT INCORPORATED, PRE-EMERGENCE, POST-EMERGENCE

Refer to the application instructions under **Moccasin Herbicide Alone** in the **APPLICATION PROCEDURES** section at the beginning of this label.

Use Restrictions

DO NOT apply this product to frozen ground.

The combined total amount of this product applied in the fall plus the spring must not exceed 2.5 pints/A per year.

The combined total amount of the active ingredient (*S-metolachlor*) from all applications to soybeans must not exceed 2.5 pounds of Al per year.

DO NOT apply more than 1.3 pts/A per year post-emergence to soybeans.

DO NOT make post-emergence applications within 90 days of harvest.

DO NOT graze or feed treated soybean forage, hay, or straw to livestock within 30 days after a pre-plant surface, pre-plant incorporated or pre-emergence application of this product.

DO NOT graze or feed treated forage or hay from soybeans to livestock after a post-emergence application of this product.

FALL APPLICATION FOR SPRING WEED CONTROL

ND, SD, MN, WI, and north of Route 30 in IA: Apply after September 30.

North of Route 91 in NE and south of Route 30 in IA: Apply after October 15.

North of Route 136 in IL: Apply after October 31.

Apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. In minimum- or no-tillage systems with soils having greater than 2.5% organic matter, apply 1.6-1.9 pts/A on medium-textured soils, and 1.9 pts/A on fine-textured soils. Tilling may be performed before or after treatment; however, if tilled after treatment do not incorporate deeper than 2-3 inches and minimize the formation of furrows and ridges.

FALL APPLICATION FOR ITALIAN RYEGRASS CONTROL

This product may be used to provide residual control of *glyphosate*-resistant Italian ryegrass *(Lolium multiflorum)* with a fall application of 1.3-1.6 pts/A (between September 1 and December 1). The higher rates should be used on fine-textured soils and the lower rates on coarse-textured soils. Tillage may be performed prior to application. If planning to till after application, incorporate to a maximum depth of 2-3 inches.

Fall treatments made after emergence of *glyphosate*-resistant Italian ryegrass can be tank mixed with paraquat for control of the emerged ryegrass. Refer to the paraquat brand label for specific rates, application instructions and restrictions. Other registered herbicides may be tank mixed with Moccasin Herbicide for control or improved control of other weeds present at the time of application.

PRE-PLANT SURFACE APPLICATION

Spring pre-plant surface application may be made on medium and fine soils only under minimum- or no-tillage practices in the following states: CO, CT, DE, IA, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MT, ND, NE, NH, NY, OH, PA, RI, SD, TN, VA, VT, WI, WV, and WY.

For applications made 30-45 days prior to planting, make only split applications using 2/3 the listed broadcast rate in the initial application and the remaining 1/3 when planting (see Use Rates below). Treatments made less than 30 days prior to planting may be applied as either a single or split application. For coarse soils apply 1.3 pts/A within two weeks prior to planting.

On soils with 6-20% organic matter, this product may be applied at rates up to 2.5 pts/A.

PRE-PLANT INCORPORATED OR PRE-EMERGENCE

Using the rates below, follow the instructions for use of **Moccasin Herbicide Alone** under **APPLICATION PROCEDURES** at the beginning of this label:

Soil Texture	Use Rates Moccasin Herbicide	
< 3% Organic Matter		
Coarse Medium Fine	1.0-1.3 pts/A 1.3-1.6 pts/A 1.3-1.6 pts/A	
≥ 3% Organic Matter		
Coarse Medium Fine	1.3 pts/A 1.3-1.6 pts/A 1.6-1.9 pts/A	

On soils with 6-20% organic matter, this product may be applied at rates up to 2.5 pts/A.

POST-EMERGENCE

Apply 1.0-1.3 pts/A as a post-emergence treatment for residual control of the weeds listed in the beginning of this label. This product does not control emerged weeds and must be applied to a weed-free soil surface or in a tank mixture with products that provide post-emergence control of weeds that may be present at the time of application.

If this product was applied as a pre-plant surface, pre-plant incorporated, or a pre-emergence treatment, a second application of this product may be made post-emergence so long as the total amount of all applications does not exceed 2.5 pts/A.

SOYBEANS MOCCASIN HERBICIDE COMBINATIONS

For enhanced residual control of the weeds listed at the beginning of this label, tank mix Moccasin Herbicide at the rates listed in **SOYBEANS** – **MOCCASIN HERBICIDE ALONE** section with the herbicides listed below. The most restrictive combination of precautionary statements, restrictions, rates and approved uses of all tank mix partners must be followed.

Use Restrictions

DO NOT apply this product to frozen ground.

The combined total amount of this product applied in the fall plus the spring must not exceed 2.5 pts/A per year.

The combined total amount of the active ingredient (*S-metolachlor*) from all applications to soybeans must not exceed 2.5 pounds of Al per year.

DO NOT apply more than 1.3 pts/A post-emergence to soybeans.

DO NOT make post-emergence applications within 90 days of harvest.

DO NOT graze or feed treated soybean forage, hay, or straw to livestock within 30 days after a pre-plant surface, pre-plant incorporated or pre-emergence application of this product.

DO NOT graze or feed treated forage or hay from soybeans to livestock after a post-emergence application of this product.

PRE-PLANT, PRE-EMERGENCE

Contact herbicides such as paraquat, glyphosate, glufosinate

For burndown and residual control in reduced- or no-till systems, apply Moccasin Herbicide pre-plant surface or pre-emergence with paraquat, glyphosate or glufosinate.

Authority® MTZ, TriCor

For additional residual control, make pre-plant surface or pre-emergence applications of this tank mix.

DO NOT apply this tank mix to soils with < 0.5% organic matter.

DO NOT apply this tank mix to soils with a pH > 7.4 (alkaline soils).

Crop injury may occur if heavy precipitation occurs soon after application.

Crop injury may occur if this mix is applied to soybean varieties that are sensitive to metribuzin.

Canopy®, Authority® First, Authority® Maxx, Classic®, FirstRate®, Sharpen®, Sonic®, Verdict®

For additional residual control, make pre-plant surface or pre-emergence applications of this tank mix.

POST-EMERGENT

Classic®, FirstRate, Flexstar®, Fusilade®, Fusion®, Prefix®, Python®, Reflex®, Storm®, Ultra Blazer®

To control emerged weeds and provide residual control of grasses and small seeded broadleaf weeds, apply this tank mix post-emergence being sure to follow any instructions or restrictions in the tank mix partner labels. Using a COC or UAN with this product may cause temporary injury to the crop.

Flexstar® GT, glyphosate brands

Use this tank mixture for residual control of weeds *in glyphosate tolerant* soybeans only.

Interline™, Liberty®

Use this tank mixture for residual control of weeds *in glufosinate (LibertyLink)* tolerant soybeans only. To avoid potential crop damage, be sure to follow the instructions for adjuvant use in the Interline or Liberty product label.

SUGAR BEETS MOCCASIN HERBICIDE ALONE

Application Methods

Post-emergence after the sugar beets have reached the first true leaf stage. Crop injury may occur if this product is applied to sugar beets grown in coarse soils prior to emergence.

Use Restrictions

DO NOT apply more than 2.5 pts/A per year post-emergence. DO NOT harvest within 60 days after application.

Use Rates

Coarse Soils: 1.0 pt/A Medium Soils: 1.3 pts/A Fine Soils: 1.6 pts/A

More than one application may be made, but the total amount applied must not exceed 2.5 pints/A per year.

SUGAR BEETS MOCCASIN HERBICIDE TANK MIX COMBINATIONS

Tank mixing with Assure® II, Betamix®, Betanex®, Poast®, Progress®, Satellite®, Select®, Stinger®, or Upbeet® will increase the likelihood of crop injury due to the adjuvant properties of this product, and adding a spray adjuvant such as COCs or MSOs may increase the likelihood even further. This risk can be reduced by using the lowest listed rates of the tank mix partners and/or adjuvants and by not applying when environmental conditions are poor for the crops or soil and air humidity are high. Be sure to use the most restrictive combination of instructions, use restrictions and precautions from all of the tank mix partner labels.

SUNFLOWERS MOCCASIN HERBICIDE ALONE

Application Methods

PRE-PLANT INCORPORATED. PRE-EMERGENCE

Use Restrictions

DO NOT graze or feed livestock on treated areas.

DO NOT exceed the maximum labeled rates listed below for the soil type.

Using the rates below, follow the instructions for use of **Moccasin Herbicide Alone** under **APPLICATION PROCEDURES** at the beginning of this label:

Soil Texture	Use Rates Moccasin Herbicide	
< 3% Organic Matter		
Coarse Medium Fine	1.0-1.3 pts/A 1.3-1.6 pts/A 1.3-1.6 pts/A	
≥ 3% Organic Matter		
Coarse Medium Fine	1.3 pts/A 1.3-1.6 pts/A 1.6-1.9 pts/A	

Use the higher ranges of the rates listed if heavy weed pressure is anticipated.

TOMATOES MOCCASIN HERBICIDE ALONE

To prevent damage, plant only healthy transplants and avoid planting when wet, cool, or unfavorable growing conditions exist.

In transplanted tomatoes, if Moccasin Herbicide is applied pre-plant incorporated, incorporate to a depth less than the depth of transplanting, and use the lower end of the rate range for the given soil type, or damage may occur.

For row middle applications where tomatoes are grown on sandy soils and where high soil moisture conditions can exist (e.g., low binding and high evaporation conditions), as may be found in the States of Florida, Georgia, Maryland, and Virginia, there is potential for crop injury in the form of leaf epinasty. The risk of this type of injury can be reduced by: a) incorporating the Moccasin Herbicide immediately following application, b) applying the Moccasin Herbicide seven or more days before transplanting (but only after the beds have been formed), c) minimizing the application of Moccasin Herbicide onto the plastic of the bed, or d) any combination of the above.

Use Restrictions

DO NOT exceed the maximum label rate for the soil texture per year.

Apply ONLY by ground.

DO NOT harvest within 90 days of application if the single application rate of this product is MORE than 1.3 pts/A per year.

DO NOT harvest within 30 days of application if the single application rate of this product is LESS than 1.3 pts/A per year.

The additional following restrictions apply when treating at a rate of 1.3 pts/A per year with a 30 day PHI:

DO NOT make more than 2 applications per growing season.

DO NOT use adjuvants.

Concentrated spray volume applications MAY be made using ground equipment.

Applications may be made as a foliar broadcast spray to the soil within a week of transplanting and again at blooming/fruiting to the row middles as a banded/directed application 38-77 days after the first treatment.

Transplanted

Apply this product pre-plant incorporated or pre-plant prior to transplanting. Take care to minimize soil disturbance when transplanting. A post-directed application may also be made to transplants once the first irrigation or settling rain takes place. Minimize spray contact with the tomato plants, and use a minimum of 20 gallons of water per acre when making post-directed applications.

For bedded transplanted tomatoes, this product should be applied to the top of the bed as a pre-plant, non-incorporated treatment just before laying plastic.

Row middles between beds may also be treated. Do not exceed the maximum amount allowed in this label.

Seeded

Moccasin Herbicide may be applied post-directed to direct seeded tomatoes. Tomato plants must be at least 4 inches tall at the time of application and the product must be applied in a minimum of 20 gallons of water per acre. Minimize spray contact with tomato plants. Moccasin Herbicide will not control emerged weeds.

Use Rates

Using the rates below, follow the instructions for use of **Moccasin Herbicide Alone** under **APPLICATION PROCEDURES** at the beginning of this label as well and any specific instructions listed above depending on whether applying to transplants or seeded tomatoes:

Soil Texture	Use Rates Moccasin Herbicide	
< 3% Organic Matter		
Coarse Medium Fine	1.0-1.3 pts/A 1.3-1.6 pts/A 1.3-1.6 pts/A	
≥ 3% Organic Matter		
Coarse Medium Fine	1.3 pts/A 1.3-1.6 pts/A 1.6-1.9 pts/A	

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE

Do not store at temperatures lower than -30°F.

PESTICIDE DISPOSAL

Open dumping is prohibited. Wastes resulting from the use of this product are toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

CONTAINER HANDLING

[less than or equal to 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) 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 1/4 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

[greater than 5 gallons]

Refillable container. Refill this container with pesticide 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 person refilling. To clean 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

[greater than 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call CHEMTREC at 1-800-424-9300, day or night.

IMPORTANT INFORMATION READ BEFORE USING PRODUCT

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. 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 manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

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