



# MOCCASIN™ II PLUS

## HERBICIDE

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

For weed control in beans, peas, and lentils; corn; cotton; grasses grown for seed; horseradish; peanuts; potatoes; pumpkins; rhubarb; safflowers; sweet, grain, or forage sorghum; soybeans; soybeans, immature seed; sugar beets; sunflowers; and tomatoes.

#### ACTIVE INGREDIENT:

S-metolachlor (CAS No. 87392-12-9) ..... 82.4%

OTHER INGREDIENTS: ..... 17.6%

TOTAL: ..... 100.0%

Moccasin II PLUS contains 7.64 lbs of active ingredient per gallon. Moccasin II PLUS is formulated as an emulsifiable concentrate (EC).

EPA Reg. No. 70506-333

### KEEP OUT OF REACH OF CHILDREN WARNING - AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

#### FIRST AID

<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a Poison Control Center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a Poison Control Center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a Poison Control Center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a Poison Control Center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a Poison Control Center or doctor for further treatment advice.</li> </ul>

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 and Drug Center at 1-866-673-6671.

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



NET CONTENTS: \_\_\_\_\_ GALLONS



## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

## WARNING

Causes substantial but temporary eye injury. Harmful if absorbed through skin. Harmful if swallowed. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses).

### Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- 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 thoroughly with soap and water immediately after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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.

### Groundwater Advisory

S-metolachlor is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

### Surface Water Advisory

The active ingredient in **Moccasin II PLUS** 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 drained or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, 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

When using this product take care 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 may not be mixed or loaded within 50 ft of perennial or intermittent streams and rivers, natural or impounded lakes, and reservoirs. This product may not be mixed/loaded or used within 50 ft 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 ft 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 110% 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.

**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.

## DIRECTIONS FOR USE

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

Use **Moccasin II PLUS** only in accordance with directions on this label or in separately published EPA accepted supplemental labeling directions for this product.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to 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.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.**

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

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

## PRODUCT INFORMATION

Observe all precautions, restrictions and limitations on the labels of each product used in tank mixtures. Tank mixtures are permitted only in those states where the tank mix partner is registered. Refer to and follow the label for each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

**Moccasin II PLUS** is a selective herbicide for use as a preplant surface-applied, preplant incorporated, or preemergence treatment in water or fluid fertilizer for control of most annual grasses and certain broadleaf weeds in labeled crops.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

### PRECAUTIONS

- Where directions specify a **Moccasin II PLUS** tank mixture with AAtrex® formulations, other brands of atrazine may be used. Follow the rates, restrictions, and limitations on the AAtrex or respective atrazine product label, if other brands of atrazine are used.
- Dry weather following preemergence application of **Moccasin II PLUS** or a tank mixture may reduce effectiveness. Cultivate if weeds develop.
- Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor, or consistent control at a level below that generally considered acceptable for commercial weed control.
- Injury may occur following the use of **Moccasin II PLUS** under abnormally high soil moisture conditions during early development of the crop.

### RESTRICTIONS

- Do not use in nurseries, turf, or landscape plantings.
- Do not apply under conditions which favor runoff or wind erosion of soil containing this product to non-target areas.
- If **Moccasin II PLUS** is incorporated, any supplemental tillage before planting must not exceed the depth of incorporation.
- Certain states may have established rate limitations for atrazine within specific geographical areas. Consult your state lead pesticide control agency for additional information. It is a violation of this label to deviate from state use regulations.
- To prevent off-site movement due to runoff or wind erosion:
  1. Do not treat powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.
  2. Do not apply to impervious substrates, such as paved or highly compacted surfaces.
  3. Do not use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops, unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.

### Resistant Weed Management

**Moccasin II PLUS** 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 labeled 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 United Phosphorus representative and/or agricultural advisor for assistance.

#### General principles of herbicide resistant weed management:

- Employ integrated weed management practices. Use multiple herbicide sites-of-action with overlapping weed spectrums in rotation, sequences, or mixtures.

- Use the full labeled 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 preemergence residual herbicide as appropriate.
- Use cultural practices such as cultivation and crop rotation, where appropriate.
- Use good agronomic principles that enhance crop competitiveness.

### Soil Textures and Herbicide Rates

Where rates are based on coarse-, medium-, or fine-textured soils, it is understood that soil textural classes are generally categorized as follows:

Coarse	Medium	Fine
Sand	Loam	Sandy clay loam
Loamy sand	Silt loam	Silty clay loam
Sandy loam	Silt	Clay loam
		Sandy clay
		Silty clay
		Clay

Within rate ranges in the rate tables and elsewhere on this label, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter.

**NOTE: Moccasin II PLUS** may be applied preemergence alone, or in combination with tank mix partners specified on this label, following preplant incorporated herbicides when used according to their label instructions, provided that such use is not prohibited on the respective labels.

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

### Moccasin II PLUS Applied Alone

#### Weeds Controlled

**Moccasin II PLUS** is taken up by the shoots and/or roots of emerging weeds. This uptake results in the inhibition of shoot and root tissue growth soon after weed germination. Because **Moccasin II PLUS** will not control emerged weeds, apply before weed emergence.

If **Moccasin II PLUS** is incorporated, do not exceed a 2- to 3-inch depth. Any tillage after the **Moccasin II PLUS** incorporation and before planting should not exceed 2 - 3 inches.

Dry weather following application of **Moccasin II PLUS** may reduce weed control. Cultivate if weeds develop.

Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor or consistent control at a level below that generally considered acceptable for commercial weed control. Control of these weeds can be erratic, due partially to variable weather conditions. The following procedures may improve the control of weeds listed as partially controlled in **TABLE 1**:

1. Thoroughly till soil to destroy germinating and emerged weeds.
2. Plant crop into moist soil immediately after tillage. If **Moccasin II PLUS** is to be used preemergence, apply at planting or immediately after planting.
3. If available, sprinkler irrigate within 2 days after application. Apply 1/2 - 1 inch of water. Use lower water volume (1/2 inch) on coarse-textured soils and higher volume (1 inch) on fine-textured soils. Also, refer to the section on **Center Pivot Irrigation Application** for this method of applying **Moccasin II PLUS**.
4. If irrigation is not possible and rain does not occur within 2 days after planting and application, weed control may be decreased. Under these conditions, a uniform, shallow cultivation is recommended as soon as weeds emerge.

**TABLE 1**

**Weeds Controlled or Partially Controlled by Moccasin II PLUS Applied Prior to Weed Emergence**

Common Name	Scientific Name	Control (C) or Partial Control (PC)
<b>GRASSES</b>		
Barnyardgrass	<i>Echinochloa crus-galli</i>	C
Crabgrass, large	<i>Digitaria sanguinalis</i>	C
Crabgrass, smooth	<i>Digitaria ischaemum</i>	C
Crowfootgrass	<i>Dactyloctenium aegyptium</i>	C
Cupgrass, prairie	<i>Eriochloa contracta</i>	C
Cupgrass, southwestern	<i>Eriochloa acuminata</i>	C
Cupgrass, woolly	<i>Eriochloa villosa</i>	PC <sup>1</sup>
Foxtail, bristly	<i>Setaria verticillata</i>	C
Foxtail, giant	<i>Setaria faberi</i>	C
Foxtail, green	<i>Setaria viridis</i>	C
Foxtail, millet	<i>Setaria italica</i>	C
Foxtail, yellow	<i>Setaria pumila</i>	C
Goosegrass	<i>Eleusine indica</i>	C
Johnsongrass (seedling)	<i>Sorghum halepense</i>	PC
Millet, wild proso	<i>Panicum miliaceum</i>	PC <sup>1</sup>
Panicum, fall	<i>Panicum dichotomiflorum</i>	C
Panicum, Texas	<i>Panicum texanum</i>	PC
Rice, red	<i>Oryza punctata</i>	C
Ryegrass, Italian	<i>Lolium multiflorum</i>	C
Sandbur, field	<i>Cenchrus spinifex</i>	PC
Sandbur, southern	<i>Cenchrus echinatus</i>	PC
Shattercane	<i>Sorghum bicolor</i>	PC
Signalgrass, broadleaf	<i>Urochloa platyphylla</i>	C
Sorghum (volunteer)	<i>Sorghum bicolor</i>	PC
Witchgrass	<i>Panicum capillare</i>	C
<b>BROADLEAF WEEDS</b>		
Amaranth, Palmer	<i>Amaranthus palmeri</i>	C
Amaranth, Powell	<i>Amaranthus powellii</i>	C
Beggarweed, Florida	<i>Desmodium tortuosum</i>	PC
Carpetweed	<i>Mollugo verticillata</i>	C
Eclipta	<i>Eclipta prostrata</i>	PC
Galinsoga, hairy	<i>Galinsoga quadriradiata</i>	C
Galinsoga, smallflower	<i>Galinsoga parviflora</i>	C
Nightshade, Eastern black	<i>Solanum ptychanthum</i>	C
Nightshade, hairy	<i>Solanum physalifolium</i>	PC
Pigweed, prostrate	<i>Amaranthus blitoides</i>	C
Pigweed, redroot	<i>Amaranthus retroflexus</i>	C
Pigweed, smooth	<i>Amaranthus hybridus</i>	C
Pigweed, tumble	<i>Amaranthus albus</i>	C
Purslane, common	<i>Portulaca oleracea</i>	PC
Pusley, Florida	<i>Richardia scabra</i>	C

(continued)

**TABLE 1 (continued)**

**Weeds Controlled or Partially Controlled by Moccasin II PLUS Applied Prior to Weed Emergence**

Common Name	Scientific Name	Control (C) or Partial Control (PC)
<b>BROADLEAF WEEDS (continued)</b>		
Spiderwort, tropical	<i>Commelina benghalensis</i>	C
Waterhemp, common	<i>Amaranthus rudis</i>	C
Waterhemp, tall	<i>Amaranthus tuberculatus</i>	C
<b>SEDGES</b>		
Nutsedge, yellow	<i>Cyperus esculentus</i>	C

<sup>1</sup> Refer to the **CORN** section of this label for additional information.

**ROTATIONAL CROPS SECTION**

**Replanted Crop Directions**

This section covers replant crops that may be planted following a lost crop that has had an application of **Moccasin II PLUS**.

If a crop treated with **Moccasin II PLUS** is lost, any crop on this label, or on a supplemental **Moccasin II PLUS** label, may be replanted immediately provided that the rate of **Moccasin II PLUS** applied to the previous crop was not greater than the labeled rate for the crop to be replanted. If the first application was banded and the replant crop is planted in the center of the untreated bands, a second banded treatment may be applied at the rate for the use pattern for the replant crop, provided the application does not overlap the first application band.

**Rotational Crop Directions**

Do not rotate to food or feed crops other than those listed below. For all crops not listed, wait at least 12 months following the last application of **Moccasin II PLUS** before planting.

Do not plant Barley, oats, rye, or wheat for a period of 4 1/2 months following treatment.

Do not plant Alfalfa for a period of 4 months following application. Clover may be seeded 9 months following application.

**RESTRICTIONS**

- To avoid injury to rotational alfalfa or clover, (1) Do not apply more than 1.9 lbs active ingredient per acre (2.0 pts of **Moccasin II PLUS**) in the previous crop, and (2) Do not make lay-by or other postemergent applications of **Moccasin II PLUS** in the previous crop.
- Tobacco, buckwheat, and rice may be planted in the spring of the year following treatment.
- Below in the rotational crop subsections A through C is a listing of rotational crop options that are made possible through S-metolachlor tolerances which were established by the EPA as crop groupings.

**PRECAUTIONS**

1) Rotating to crops within these crop groupings at less than 60 days may result in crop injury. 2) If the rate of **Moccasin II PLUS** applied in the previous crops was greater than the rate listed here (**Sections A - C** below), these crops may not be planted until the following spring.

**A. If 1.33 pts/A or less of Moccasin II PLUS was applied to the field, the following crops (as well as those listed under subsections B or C below) may be planted 60 days after the last application. Do not make a second application of an S-metolachlor-containing product to the following crops within 60 days of the original application.**

**Crop Subgroup 1B - Root Vegetables:** garden beet, edible burdock, carrot, celeriac, turnip-rooted chervil, chicory, ginseng, horseradish, turnip-rooted parsley, parsnip, radish, oriental radish, rutabaga, salsify, black salsify, Spanish salsify, skirret, and turnip.



**Crop Group 3 Bulb Vegetables (if to be harvested green):** garlic, great-headed garlic, leek, green onion, Welsh onion, shallot.

Winter squash (including pumpkins).

**B. If 1.67 pts/A or less of Moccasin II PLUS was applied to the field, the following crops (as well as any listed under subsection C below) may be planted 60 days after the last application. Do not make a second application of an S-metolachlor-containing product to the following crops within 60 days of the original application.**

**Crop Group 8 - Fruiting Vegetables, except Cucurbits and Tabasco Peppers:** eggplant, groundcherry (*Physalis* spp.), pepino, peppers (bell, chili, cooking, pimento, and sweet), tomatillo, and tomato.

**C. If 2.0 pts/A or less of Moccasin II PLUS was applied to the field, the following crops may be planted 60 days after the last application. Do not make a second application of an S-metolachlor-containing product to the following crops within 60 days of the original application.**

**Crop Subgroup 1C - Tuberous and Corm Vegetables:** arracacha; arrow-root; Chinese artichoke; Jerusalem artichoke; edible canna; bitter and sweet cassava; chayote (root); chufa; dasheen (taro); ginger; leren; potato; sweet potato; tanier; turmeric; yam bean; and yam, true.

**Crop Group 3 Bulb Vegetables (if to be harvested dry):** garlic, great-headed garlic, leek, dry bulb and green onion, Welsh onion, shallot.

**Crop Subgroup 4B - Leaf Petiole Vegetables:** cardoon, celery, Chinese celery, celtuce, Florence fennel, rhubarb, and Swiss chard.

**Crop Subgroup 5A - Head and Stem Brassica Vegetables:** broccoli, Chinese broccoli, Brussels sprouts, cabbage, Chinese (Napa) cabbage, Chinese mustard, cauliflower, cavalo broccolo, and kohlrabi.

## APPLICATION PROCEDURES

### Application Timing

**Moccasin II PLUS** alone or in some tank mixtures with other labeled herbicides may be applied for weed control in certain crops at various times. Refer to the given crop section of the label to determine if application timings listed below are indicated.

Application Method	Instructions
Preplant Surface-Applied	Refer to individual crop section on this label to determine if early preplant surface application is indicated. For minimum-tillage or no-tillage systems only, <b>Moccasin II PLUS</b> alone and some <b>Moccasin II PLUS</b> tank mixtures may be applied up to 45 days before planting certain crops. For treatments made 30 - 45 days before planting, use only split applications, with 2/3 the labeled broadcast rate for the crop and soil texture applied initially and the remaining 1/3 at planting. Treatments less than 30 days before planting may be made either as a split or a single application.  If weeds are present at the time of treatment, apply in a tank mixture combination with a contact herbicide (for example, Gramoxone® brands, products containing glyphosate). Observe directions for use, precautions, and restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.
Preplant Incorporated	Apply <b>Moccasin II PLUS</b> to the soil and incorporate into the top 2 inches of soil within 14 days before planting, using a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate <b>Moccasin II PLUS</b> after bed formation, unless specified otherwise.

(continued)

Application Method	Instructions
Preemergence	Apply <b>Moccasin II PLUS</b> during planting (behind the planter) or after planting, but before weeds or crops emerge.
Postemergence	<b>Moccasin II PLUS</b> will not control emerged weeds so apply only to a weed-free soil surface or in tank mixture with products that provide postemergence control of weeds present at the time of application. Refer to the individual crop section of this label if a postemergence application is indicated.

## Special Application Procedures

### CA Only (Beans, Peas, and Lentils; Corn; Safflowers)

#### Preplant Incorporated

Broadcast **Moccasin II PLUS** alone or with tank mix partners listed on this label to the soil and thoroughly incorporate with a disk or similar implement set to till 4 - 6 inches deep. For more thorough incorporation, till the soil in 2 different directions (cross-till). Crops may be planted on flat surface or on beds. Use caution when forming the beds that only soil from the **Moccasin II PLUS** treated zone is used (i.e., do not bring untreated soil to soil surface). If the application is made to preformed beds, incorporate **Moccasin II PLUS** with a tillage implement set to till 2 - 4 inches deep. Take care during tilling to keep the tilled (**Moccasin II PLUS**-treated) soil on the beds.

#### Preemergence

Apply **Moccasin II PLUS** after planting. Water with sprinkler or flood irrigation within 7 - 10 days.

### Fall Application for Spring Weed Control (Only in IA, MN, ND, SD, WI, and Portions of NE and IL)

**See specific instructions in the Beans, Peas, and Lentils; Corn; and Soybeans sections of this label for timing of application and other information:** Do not apply to frozen ground. Use on medium and fine soils with greater than 2.5% organic matter that will be planted to corn or soybeans the next spring. Ground may be tilled before or after application. Do not incorporate deeper than 2 to 3 inches if tilled after treatment.

#### RESTRICTION

- If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for the specific crop, or illegal residues may result.

### Fall Application for Italian Ryegrass Control (Corn, Cotton, Grain and Forage Sorghum, and Soybean Only)

**See specific instructions in the Corn, Cotton, Grain and Forage Sorghum, and Soybean sections of this label for timing of application and other information:** **Moccasin II PLUS** may be applied in the fall (September 1 - December 1) for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). A tillage operation may precede the application. Do not incorporate deeper than 2 - 3 inches if tillage follows the application of **Moccasin II PLUS**.

#### RESTRICTIONS

- Do not apply **Moccasin II PLUS** to frozen ground.
- All crops on the **Moccasin II PLUS** label may be planted the following spring after application.
- If a spring application is made, the combined total amount of **Moccasin II PLUS** applied in the fall plus the spring must not exceed the maximum seasonal S-metolachlor rate for the specific crop planted, or illegal residues may result.
- Refer to the crop sections on this label for specific directions.

### Ground Application

Apply **Moccasin II PLUS** alone or in tank mixtures by ground equipment in a minimum of 10 gals of spray mixture per acre, unless otherwise specified.

Use sprayers that provide accurate and uniform application. For **Moccasin II PLUS** tank mixtures with wettable powder or dry flowable formulations, use screens

and strainers no finer than 50-mesh. Rinse sprayer thoroughly with clean water immediately after use.

Calculate the amount of herbicide needed for band treatment by the formula:

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

For information on applying in lower volumes of carrier, see **Low Carrier Application** section.

For application by air or through center pivot systems, see **Aerial Drift Management** and **Aerial Drift Reduction Advisory Information** sections.

For information on impregnating dry fertilizer, see **Dry Bulk Granular Fertilizer** section.

For information on application using variable-rate technologies, see **Variable-Rate Application** section.

## SPRAY EQUIPMENT

### Low Carrier Application

#### For Broadcast Ground Application Only

Use sprayers, such as Ag-Chem RoGator®, Hagie, John Deere Hi-Cycle™, Melroe Spra-Coupe, Tyler Patriot™, or Willmar Air Ride®, that provide accurate and uniform application. **Only water may be used as a carrier.** Screens in suction and in-line strainers should be 50-mesh. Manufacturers may require that tip screens as fine as 100-mesh be used with some nozzles. Use a pump with capacity to: (1) maintain up to 35 - 40 psi at the nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension. Use a minimum of 5.0 gals of spray mixture per acre. Maximum sprayer speed is 15 mph. Rinse sprayer thoroughly with clean water immediately after each use.

#### PRECAUTIONS

- Use low pressure nozzles to reduce drift and increase application accuracy.
- Take care when using automatic rate controlling devices to spray the material within the rated working pressure and flow ranges of the nozzles selected.
- Use nozzle screens when specified by the manufacturer.
- Place all nozzles on 20-inch centers, except flooding types which should be placed on 40-inch centers. When Flat Fan-type nozzles are used, angles of 80° or 110° are recommended.
- Always read and follow the manufacturer's directions for optimum setup and performance of their nozzles or tips.

### Aerial Application

Apply **Moccasin II PLUS** in water alone or in tank mixtures Tricor/MetriCor in a minimum total volume of 2.0 gals/A by aircraft. **Moccasin II PLUS** may be applied by air in combination with AAtrex, Lorox®, Balan®, Prowl®, Treflan®, or Tricor/MetriCor®. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. Apply at a maximum height of 10 ft, using low-drift nozzles at a maximum pressure of 40 psi, and only when wind speed does not exceed 10 mph. To ensure that spray will not adversely affect adjacent sensitive non-target plants, apply **Moccasin II PLUS** alone or **Moccasin II PLUS** + AAtrex by aircraft at a minimum upwind distance of 400 ft from sensitive plants, or apply **Moccasin II PLUS** + Lorox or Tricor/MetriCor at a minimum upwind distance of 300 ft from sensitive plants.

### Aerial Drift Management

The interaction of many equipment- and weather-related factors determines 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 off-target 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.

1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.

2. 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.

The applicator must be familiar with and take 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 indicated 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

Applications must not be made at a height greater than 10 ft 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 downwind 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. 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

Applications must not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and

often continue into the morning. Their presence can be indicated by 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

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

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

### Center Pivot Irrigation Application

**Moccasin II PLUS** alone or in tank mixture with other herbicides on this label, which are labeled for center pivot application, may be applied in irrigation water preemergence (after planting, but before weeds or crop emerge) at rates indicated on this label. **Moccasin II PLUS** also may be applied postemergence to the crop and preemergence to weeds in crops where postemergence applications are allowed on this label. Follow all restrictions (height, timing, rate, etc.) to avoid illegal residues. Apply this product only through a center pivot irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, contact State Extension specialists, equipment manufacturers, or other experts. 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 if the need arises.

#### RESTRICTIONS

- Do not apply this product through any other type of irrigation system.
- 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.

### Operating Instructions

1. 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.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
3. 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.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. 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.
6. 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.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. Prepare a mixture with a minimum of 1 part water to 1 part herbicide(s) and inject this mixture into the center pivot system. Injecting a larger volume of a more dilute mixture per hour will usually provide more accurate calibration of metering equipment. Maintain sufficient agitation to keep the herbicide in suspension.
9. Meter into irrigation water during entire period of water application.

10. Apply in 1/2 - 1 inch of water. Use the lower water volume (1/2 inch) on coarse-textured soils and the higher volume (1 inch) on fine-textured soils. More than 1 inch of water at application may reduce weed control by moving the herbicide below the effective zone in the soil.

#### PRECAUTION FOR CENTER PIVOT APPLICATIONS

Where sprinkler distribution patterns do not overlap sufficiently, unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result.

### Dry Bulk Granular Fertilizers

Dry bulk granular fertilizers may be impregnated or coated with **Moccasin II PLUS** alone or selected **Moccasin II PLUS** tank mixtures provided that they are registered for preplant incorporated or preplant surface applications which are used to control weeds in crops on the **Moccasin II PLUS** label; and that they are not prohibited from use on dry bulk granular fertilizers.

When applying **Moccasin II PLUS** or **Moccasin II PLUS** mixtures with dry bulk granular fertilizers, follow all directions for use, restrictions, and precautions on the respective product labels regarding target crops, rates, soil texture, application methods (including timing of application), and rotational crops restrictions.

Compliance with individual state regulations relating to dry bulk granular fertilizer blending, registration, labeling, and application is the responsibility of the individual and/or company selling the herbicide/fertilizer mixture.

Prepare the herbicide/fertilizer mixtures by using any commonly used dry bulk fertilizer blender (such as closed drum, belt, ribbon). Nozzles used to spray **Moccasin II PLUS** and **Moccasin II PLUS** mixtures onto the fertilizer must be placed to provide uniform spray coverage. Take care to aim the spray directly onto the fertilizer only and to avoid spraying the walls of the blender.

If the herbicide/fertilizer mixture is too wet, add a highly absorptive material such as Agsorb® or Celatom MP-79®, or similar granular clay or diatomaceous earth materials, to obtain a dry, free-flowing mixture. Add absorptive materials only after the herbicide has been thoroughly blended into the fertilizer mixture. Best application results will be obtained by using a granule of 6/30 particle size or of a size similar to that of the fertilizer material being used. Generally, less than 2% by weight of absorptive material will be needed. Avoid using more than 5% absorptive material by weight.

Amounts of **Moccasin II PLUS**, AAtrex, AAtrex + Princep®, Balance® Pro, Princep, Tricor/MetriCor, or Sonalan® can be calculated by using the following formula:

$$\frac{2,000}{\text{lbs of fertilizer per acre}} \times \text{pts/A of liquid or flowable product} = \text{pts of liquid or flowable product per ton of fertilizer}$$

$$\frac{2,000}{\text{lbs of fertilizer per acre}} \times \text{lbs/A of dry product} = \text{lbs of dry product per ton of fertilizer}$$

### Pneumatic (Compressed Air) Application (Moccasin II PLUS Alone)

High humidity, high urea concentrations, low fertilizer use rates, and dusty fertilizer may cause fertilizer mixture to build up or plug the distributor head, air tubes, or nozzle deflector plates. To minimize buildup, premix **Moccasin II PLUS** with Exxon Aromatic 200 at a rate of 1.0 - 4.0 pts/gals of **Moccasin II PLUS**. Aromatic 200 is a noncombustible/nonflammable petroleum product. Aromatic 200 may be used in either a fertilizer blender or through direct injection systems. Do not use drying agents when using Aromatic 200.

#### PRECAUTIONS

- Use mixtures of **Moccasin II PLUS** and Aromatic 200 on dry fertilizer only. Poor results or crop injury may result if these mixtures are used in water or liquid fertilizer solutions for spraying applications.
- When impregnating **Moccasin II PLUS** in a blender before application, a drier mixture can be attained by substituting a drying agent for Aromatic 200. The use of Agsorb FG or drying agents of 6/30 particle size are recommended.



## RESTRICTIONS

- To avoid potential for explosion, do not impregnate **Moccasin II PLUS** or **Moccasin II PLUS** mixtures on ammonium nitrate, potassium nitrate, or sodium nitrate, either alone or in blends with other fertilizers.
- Do not use **Moccasin II PLUS** or **Moccasin II PLUS** mixtures on straight limestone, since absorption will not be achieved. Fertilizer blends containing limestone can be impregnated.
- Do not use drying agents with On-The-Go impregnation equipment.

## Application

Apply 200 - 700 lbs of the herbicide/fertilizer mixture per acre. For best results, apply the mixture uniformly to the soil with properly calibrated equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential to prevent possible crop injury. Nonuniform application may also result in unsatisfactory weed control. In areas where conventional tillage is practiced, a shallow incorporation of the mixture into the soil may improve weed control. On fine- or medium-textured soils in areas where soil incorporation is not planned, i.e., reduced tillage situations or in some conventional till situations, make applications approximately 30 days before planting to allow moisture to move the herbicide/fertilizer mixture into the soil. On coarse-textured soils, make applications approximately 14 days prior to planting.

## PRECAUTION

- To avoid crop injury, do not use the herbicide/fertilizer mixture on crops where bedding occurs.

## MIXING INSTRUCTIONS

### Moccasin II PLUS alone:

Mix **Moccasin II PLUS** with water or fluid fertilizer and apply as a spray. Fill the spray tank 1/2 - 3/4 full with water or fluid fertilizer, add the proper amount of **Moccasin II PLUS**, then add the rest of the water or fluid fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

### Tank Mixtures

#### Follow this order:

Fill the spray tank 1/4 full with water, and start agitation;

Next add 2,4-D, AAtrex, Balan, Balance Pro, Banvel®, Basagran®, Butoxone®, Butyrac®, Canopy®, Caparol® 4L, Command®, Cotoran®, Eptam®, Liberty® Herbicide, Liberty® ATZ Herbicide, Lorox, Marksman®, MSMA, Princep, Prowl, Pursuit®, AAtrex + Princep, Scepter®, Tricor/MetriCor, Sonalan, or Treflan, and allow it to become dispersed;

#### Add **Moccasin II PLUS**;

Then add Gramoxone brands, Landmaster® BW, or Touchdown or Roundup (glyphosate products) if these products are being used;

And finally add the rest of the water.

For tank mixtures with AAtrex, Balance, Banvel, Canopy, Caparol 4L, Command, Cotoran\*, Eptam, Lorox, Marksman, Princep, Prowl\*, Pursuit, AAtrex + Princep, Scepter, Tricor/MetriCor, Sonalan, or Treflan, fluid fertilizers may replace all or part of the water as carrier, except in the AAtrex postemergence and the Banvel postemergence tank mixes. For tank mixtures with AAtrex, see additional mixing instructions on the AAtrex label.

For each mixture, check compatibility with fluid fertilizer, as described below, before mixing in spray tank. For all tank mixtures, agitate during mixing and application to maintain a uniform suspension.

\* See **Special Mixing Instructions** for tank mixtures with Cotoran and with AAtrex or Princep + Prowl under the appropriate tank mixture section.

For directions on how to conduct a compatibility test, see the **Compatibility Test** section.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

## Compatibility Test

A jar test is beneficial before tank mixing to ensure compatibility of **Moccasin II PLUS** with other pesticides. The following test assumes a spray volume of 25 gals/A. For other spray volumes, make appropriate changes in the ingredients.

## PRECAUTION

- Nitrogen solutions or complete fluid fertilizers may replace all or part of the water in the spray. Because liquid fertilizers vary, even within the same analysis, **always check compatibility with pesticide(s) before use.** Incompatibility of tank mixtures is more common with suspensions of fertilizer and pesticides.

## Test Procedure

1. Add 1.0 pt of carrier (fertilizer or water) to each of 2 one qt jars with tight lids.

**RESTRICTIONS:** Use the same source of water that will be used for the tank mix and conduct the test at the temperature the tank mix will be applied.

2. To one of the jars, add 1/4 tsp or 1.2 milliliters of a compatibility agent approved for this use, such as Compex® or Unite® (1/4 tsp is equivalent to 2.0 pts/100 gals spray). Shake or stir gently to mix.
3. To both jars, add the appropriate amount of pesticide(s) in their relative proportions based on label rates. If more than one pesticide is used, add them separately with dry pesticides first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix.
4. After adding all ingredients, put lids on and tighten, and invert each jar ten times to mix. Let the mixtures stand 15 - 30 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the two jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (a) Slurry the dry pesticide(s) in water before addition, or (b) add 1/2 the compatibility agent to the fertilizer or water and the other 1/2 to the emulsifiable concentrate or flowable pesticide before addition to the mixture. If incompatibility is still observed, do not use the mixture.
5. After compatibility testing is complete, dispose of any pesticide wastes in accordance with the **STORAGE AND DISPOSAL** section in this label.



## CROP USE DIRECTIONS

### CORN (ALL TYPES) Moccasin II PLUS Alone

Apply either preplant surface, preplant incorporated, preemergence, postemergence, or lay-by, using the rate specified below.

#### Preplant Surface-Applied

Refer to instructions for use of **Moccasin II PLUS** alone under **APPLICATION PROCEDURES**.

#### Fall Application for Spring Weed Control

- Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
- Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
- Apply after October 31 north of Route 136 in IL.

In all locations, 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-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67 - 2.0 pts/A on medium-textured and 2.0 pts/A on fine-textured soils. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not incorporate deeper than 2 - 3 inches. Minimize furrow and ridge formation in the tillage operations.

#### Fall Application for Italian Ryegrass Control

**Moccasin II PLUS** may be applied for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*). Apply **Moccasin II PLUS** at 1.33 - 1.67 pts/A in the fall (September 1 - December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower **Moccasin II PLUS** rate for coarse-textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2 - 3 inches if tillage follows the application of **Moccasin II PLUS**. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone brands can be tank mixed with **Moccasin II PLUS** to control emerged ryegrass. Refer to the Gramoxone brands label for specific rates, application instructions, and restrictions. Other registered herbicides may be tank mixed with **Moccasin II PLUS** for control or improved control of other weeds present at the time of application.

#### RESTRICTIONS

- Do not apply **Moccasin II PLUS** to frozen ground.
- Do not apply more than the maximum seasonal rate for corn through any combination of applications (3.9 pts/A, depending on soil texture).

#### Fall Application for Control or Suppression of Yellow Nutsedge (ID, OR, and WA Only)

For preemergent control or suppression of yellow nutsedge the following spring, apply 1.33 pts/A of **Moccasin II PLUS** in the fall after the harvest of the previous crop but before freeze-up. Fall applications of **Moccasin II PLUS** can be surface-applied or incorporated.

#### RESTRICTIONS

- Do not make more than one fall application per crop.
- Do not apply more than 1.33 pts/A in a single fall preplant application.
- Do not apply to frozen ground.
- Do not apply more than the maximum seasonal rate for corn (3.9 pts/A, depending on soil texture) through any combination of applications.

#### Early Preplant Applications

Use on medium- and fine-textured soils with minimum-tillage or no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WV. Apply 2/3 the labeled rate of **Moccasin II PLUS** (1.67 pts/A on medium soils and 2.0 pts/A on fine soils) as a split treatment 30 - 45 days before planting and the remainder at planting. Applications made less than 30 days prior to planting may be as either a split or single treatment. Apply 1.33 pts/A on coarse soils not more than 2 weeks before planting.

#### RESTRICTION

- Do not apply more than the maximum seasonal rate for corn (3.9 pts/A, depending on soil texture) through any combination of applications.

On medium- and fine-textured soils with minimum- or no-tillage systems in CT, DE, MA, MD, ME, MI, NH, NY, OH, PA, RI, VA, VT, and WV, preplant surface applications may be applied following the directions for use above. If the amount of rainfall results in unsatisfactory length of weed control following the earlier treatment, a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide may be used, i.e., AAtrex, Beacon®, Bicep Magnum®, Bicep II Magnum®, Exceed®, Accent®, Banvel, Basagran, bromoxynil (Brominal® or Buctril®), or 2,4-D. If the postemergence treatment includes the herbicide used preplant surface-applied, do not exceed the total labeled rate for corn on a given soil texture. Observe all directions for use, precautions, and limitations on the label of the postemergent herbicide.

#### Preplant Incorporated or Preemergence

Follow instructions for use of **Moccasin II PLUS** alone under **APPLICATION PROCEDURES**. On coarse soils, apply 1.0 - 1.33 pts/A of **Moccasin II PLUS** if organic matter content is less than 3%, or 1.33 pts/A if organic matter content is 3% or greater. On medium soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS**. On fine soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS** if organic matter content is less than 3%, or 1.67 - 2.0 pts/A if organic matter content is 3% or greater.

#### Postemergence or Lay-By

To extend the duration of weed control in corn, a maximum rate of 2.0 pts/A of **Moccasin II PLUS** may be applied after corn emergence until the corn plants reach 40 inches in height, following any preplant surface-applied, preplant incorporated, or preemergence herbicide application, including **Moccasin II PLUS**. For best results, apply to soil free of emerged weeds and directed toward the base of corn plants taller than 5 inches. The total **Moccasin II PLUS** rate applied on corn during any one crop year must not exceed 3.9 pts/A, depending on soil texture.

#### RESTRICTIONS FOR ALL APPLICATIONS TO CORN

- Do not graze or feed forage from treated areas for 30 days following application.
- PHI (Pre-Harvest Interval): Do not harvest sweet corn ears from treated areas for 30 days following application.

#### Problem Weed Control Directions

**Shattercane, Wild Proso Millet, Woolly Cupgrass, and Eclipta - Partial Control:** For more consistent partial control of these weeds, apply 1.0 - 1.33 pts/A of **Moccasin II PLUS** preplant incorporated followed by 1.0 - 1.33 pts/A of **Moccasin II PLUS** preemergence. Make the preemergence application during or after planting, but before weeds and corn emerge. Use the 1.33 pts/A rate when a heavy infestation is expected. A shallow cultivation may be needed to control any late emerging weeds.

**Woolly Cupgrass and Wild Proso Millet Control Program:** For control of these species, use the following 3-step program: (1) Apply **Moccasin II PLUS** early preplant, preplant incorporated, or preemergence at 1.67 pts/A on medium soils and 2.0 pts/A on fine-textured soils, up to the maximum label rate. Lightly incorporate with a rotary hoe if rainfall does not occur within 5 - 7 days; (2) Apply a postemergence tank mix of Beacon at 0.38 oz/A or Exceed at 1 packet per 4 acres plus Accent SP at 0.33 oz/A plus 1.0 qt of crop oil concentrate plus 1.0 gal/A of 28% nitrogen, or the equivalent amount of ammonium sulfate, when grasses are 2 - 3 inches tall and the corn is at least 4 inches tall; and (3) Cultivate 14 - 21 days after the postemergence application.

In the event of escape of annual weeds following a preplant surface, preplant incorporated, or preemergence treatment of **Moccasin II PLUS**, follow with a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., AAtrex, Beacon, Bicep II Magnum, Exceed, Accent, Banvel, Basagran, Brominal, Buctril, or 2,4-D. If the postemergence treatment includes the herbicide used in the earlier treatment, do not exceed the total labeled rate for corn on a given soil texture.

## RESTRICTIONS

- Do not apply more than the labeled application rate for a given soil texture per year through any combination of applications.
- In corn, use up to 2.5 pts/A of **Moccasin II PLUS** preplant surface, preplant incorporated, or preemergence treatment on soils having an organic matter content between 6% and 20%.
- Brominal or Buctril may be applied postemergence alone or in tank mix combination with AAtrex. Do not exceed 1.2 lbs ai/A of AAtrex in tank mix combination with Brominal or Buctril postemergence. Refer to the AAtrex, Brominal, and Buctril labels for specific rates and precautions.
- Do not use **Moccasin II PLUS** on peat or muck soils.

## CORN Moccasin II PLUS Combinations

**Moccasin II PLUS** 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 II PLUS** is applied after corn emergence.

## RESTRICTIONS

- Do not graze or feed forage from treated areas for 30 days following application.
- Pre-Harvest Interval (PHI): Do not harvest sweet corn ears from treated areas for 30 days following application.

**IMPORTANT: FOR TANK MIXTURES WITH AATREX (OR OTHER BRANDS OF ATRAZINE) - IF APPLYING MOCCASIN II PLUS IN TANK MIXTURE WITH AATREX, ALL THE RESTRICTIONS AND RATE LIMITATIONS ON THE AATREX LABEL MUST BE FOLLOWED IF MORE RESTRICTIVE/PROTECTIVE THAN THOSE ON THIS LABEL. IN ADDITION, IF AATREX IS/MUST BE APPLIED AT RATES LOWER THAN THOSE SPECIFIED ON THIS LABEL, BROADLEAF WEED CONTROL MAY BE AFFECTED. REFER TO THE AATREX LABEL FOR WEEDS CONTROLLED AT THE REDUCED RATES.**

**TABLE 2**

**Moccasin II PLUS Tank Mixtures for Corn - Additional Weeds Controlled and Special Instructions**

	Moccasin II PLUS +						
	AAtrex and/or Princep (Preplant Surface, PPI, PRE)	AAtrex (Post)	Banvel (Field Corn)	AAtrex + Lorox	AAtrex or Princep + Prowl	Marksman	Balance Pro
<b>Special Mixing Instructions</b>					<b>1</b>		
<b>Comments</b>	<b>2,3,4,5,7,8</b>	<b>2,3,4,5</b>		<b>2,3,4,5,6</b>	<b>2,3,4,5</b>	<b>7</b>	<b>2,3,7</b>
Browntop panicum	X			X	X		X
Cocklebur	X	0	0	X	X		0-X
Common purslane	X			X	X	X	X
Hairy nightshade	X			X	X		X
Jimsonweed		X	0			X	X
Kochia		X				X	X
Lambsquarters	X	X	X	X	X	X	X
Morningglory	X	0	0	X	X		X
Mustard		X				X	X
Pigweed				X	X	X	X
Prickly sida		X					
Ragweed	X	X	X	X	X	X	X
Smartweed	X	X	X	X	X	X	X
Velvetleaf	X	X	0	X	X	0-X	0-X

X = control; 0 = partial control; 0-X = partial to full control depending on ratio of products used or on weed population

## Comments

1. Special Mixing Instructions for **Moccasin II PLUS** + AAtrex or Princep and Prowl:
  - (1) Fill the spray tank 1/4 full with water or fluid fertilizer and start agitation.
  - (2) To aid compatibility, add a compatibility agent, such as Unite or X-77®, at 4.0 pts/100 gals of spray mixture.
  - (3) Then add the AAtrex or Princep and allow it to become dispersed.
  - (4) Then add **Moccasin II PLUS** and Prowl 4E.
  - (5) Add the rest of the water.
2. Although a single formulation for AAtrex or Princep is listed in the rate tables, other formulations may be substituted, using the following formula:
  - 1.0 lb of AAtrex® Nine-O® or Princep® Caliber 90® = 1.8 pts of AAtrex 4L or Princep 4L.
3. Although directions specify AAtrex formulations in tank mixture with **Moccasin II PLUS**, other brands of atrazine may be used. Follow the rates, restrictions, and limitations on the atrazine label.
4. See additional mixing instructions on the AAtrex label.

- Restriction:** Do not apply more than a total of 2.5 lbs ai of atrazine per acre per year. Because certain states may have established rate limitations for atrazine within specific geographical areas, consult your state lead pesticide control agency for additional information. It is a violation of this label to deviate from state use regulations.
- Other formulations of Lorox can be used: 1.0 lb of Lorox DF = 1.0 pt of Lorox L.
- In minimum-tillage and no-tillage systems, mix with Gramoxone brands for control of most emerged annual weeds and suppression of perennial weeds; or with Landmaster BW for suppression of emerged field bindweed and control or suppression of annual weeds; or with Touchdown brands or Roundup brands for control of most emerged annual and perennial weeds.
- Refer to the **CORN - Moccasin II PLUS Combinations – Tank Mixture with AAtrex; or AAtrex + 2,4-D; or AAtrex + 2,4-D + Banvel – Minimum-Tillage or No-Tillage Systems** sections for specific directions for 2,4-D or Banvel burndown combinations in **Minimum-Tillage or No-Tillage Systems**.

**Moccasin II PLUS** in any tank mixture for corn may be applied in water or fluid fertilizer, except as noted.

Refer to **CORN (ALL TYPES) - Moccasin II PLUS Alone** for sequential post-emergence treatments if escape weeds develop.

#### RESTRICTIONS

- For all applications to corn, do not graze or feed forage from treated areas for 30 days following application.
- PHI (Pre-Harvest Interval): Do not harvest sweet corn ears from treated areas for 30 days following application.
- When applying **Moccasin II PLUS** in tank mixture with AAtrex, do not exceed a total of 2.5 lbs ai of atrazine per acre per year.

### Tank Mixture with AAtrex or Princep, or AAtrex + Princep Preplant Surface, Preplant Incorporated, or Preemergence

In addition to the weeds controlled by **Moccasin II PLUS** alone, **Moccasin II PLUS** + AAtrex or Princep, or **Moccasin II PLUS** + AAtrex + Princep, applied preplant surface, preplant incorporated, or preemergence, also controls the following weeds: browntop panicum, cocklebur, common purslane, hairy nightshade, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf.

Apply **Moccasin II PLUS** + AAtrex or Princep, or **Moccasin II PLUS** + AAtrex + Princep either preplant surface, preplant incorporated, or preemergence.

#### Preplant Surface-Applied

Follow instructions for use of **Moccasin II PLUS** alone under **APPLICATION PROCEDURES** and under **Application Instructions** for **Moccasin II PLUS** alone on corn. Apply **Moccasin II PLUS** + AAtrex or Princep, or **Moccasin II PLUS** + AAtrex + Princep on medium soils (1.67 pts/A of **Moccasin II PLUS** + 3.2 - 4.0 pts/A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined) and on fine soils (1.67 - 2.0 pts/A of **Moccasin II PLUS** + 4.0 pts/A of AAtrex 4L or 4.0 - 5.0 pts/A of Princep 4L, or AAtrex 4L + Princep 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 in the **Moccasin II PLUS Alone – Preplant Surface-Applied** section of the label for corn. On coarse soils, apply 1.33 pts/A of **Moccasin II PLUS** and 3.2 pts/A of AAtrex 4L or Princep 4L, or AAtrex 4L + Princep 4L combined.

#### Preplant Incorporated or Preemergence

Follow instructions for use of **Moccasin II PLUS** alone under **APPLICATION PROCEDURES**. Apply **Moccasin II PLUS** + AAtrex or Princep, or **Moccasin II PLUS** + AAtrex + Princep, using the appropriate rates from **TABLE 3**.

#### RESTRICTION

- Do not apply more than the labeled rate for a given soil texture per year through any combination of applications.

## Shattercane and Wild Proso Millet - Partial Control

For more consistent partial control of shattercane or wild proso millet where **Moccasin II PLUS** is applied in tank mixture or sequentially with other registered corn herbicides, the following applications may be made:

- Apply 1.0 - 1.33 pts/A of **Moccasin II PLUS** + 2.0 lbs ai/A of AAtrex or Princep preplant incorporated, followed by 1.0 - 1.33 pts/A of **Moccasin II PLUS** preemergence. Make the preemergence application during or after planting, but before weeds and corn emerge.
- Apply **Moccasin II PLUS** at 1.33 pts/A alone or in tank mix combination with up to 2.0 lbs ai/A of AAtrex, or Princep, preplant incorporated. Do not exceed the total rate of triazine herbicide labeled in combination with **Moccasin II PLUS** for corn grown on a given soil texture. Follow with a post-directed application of Evik® 80W at 2.5 lbs/A. Refer to the Evik 80W label for specific directions for the post-directed application.
- Apply Eradicane® (or equivalent EPTC or butylate formulations) at labeled rates preplant incorporated, followed by a preemergence application of **Moccasin II PLUS** at 1.0 - 1.33 pts/A. Do not use Eradicane on soils where rapid degradation has been shown to occur. Make the preemergence application during or after planting, but before weeds and corn emerge.

**NOTE:** When following the application regimes in numbers 1 - 3 above, a shallow cultivation may be needed after the preemergence or postemergence application to help control any late emerging shattercane or wild proso millet plants.

#### RESTRICTION

- Do not apply more than 1.9 lb ai/A (2.0 pts of **Moccasin II PLUS**) in the preplant incorporated plus preemergence application on soils with less than 6% organic matter, or crop injury may result.

**TABLE 3**

**Moccasin II PLUS + AAtrex or Princep, or Moccasin II PLUS + AAtrex + Princep, Preplant Incorporated or Preemergence - Corn (All Types)**

Soil Texture	Broadcast Rates Per Acre			
	Less than 3% Organic Matter		3% Organic Matter or Greater	
	Moccasin II PLUS + AAtrex Nine-O* or AAtrex Nine-O**			
	or Princep Caliber 90*	+ Princep Caliber 90**	or Princep Caliber 90*	+ Princep Caliber 90**
Coarse	0.8 - 1.0 pt +	0.8 - 1.0 pt +	1.0 pt +	1.0 pt +
	1.1 - 2.2 lbs	0.6 - 1.1 lbs +	1.3 - 2.2 lbs	0.7 - 1.1 lbs +
Medium	1.0 - 1.33 pts +	1.0 - 1.33 pts +	1.33 pts +	1.33 pts +
	1.3 - 2.2 lbs	0.7 - 1.1 lbs +	1.8 - 2.2 lbs	0.9 - 1.1 lbs +
Fine	1.33 pts +	1.33 pts +	1.33 - 1.67 pts +	1.33 - 1.67 pts +
	1.8 - 2.2 lbs	0.9 - 1.1 lbs +	1.8 - 2.2 lbs***	0.9 - 1.1 lbs*** +
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE			

\* Use Princep rather than AAtrex when heavy infestations of crabgrass or fall panicum are expected. On soils having between 6% and 20% organic matter, apply **Moccasin II PLUS** up to 2.33 pts/A in tank mix combination with 2.2 lbs/A of AAtrex Nine-O, or equivalent rates of AAtrex 4L. Refer to the AAtrex label for weeds controlled at this reduced rate.

\*\* When using the tank mixture of **Moccasin II PLUS** + AAtrex Nine-O + Princep Caliber 90, use equal rates of each as labeled when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of AAtrex + Princep instead of the 1:1 ratio given in **TABLE 3**. (*Example:* Total AAtrex Nine-O + Princep Caliber 90 = 1.2 lbs/A, use 0.4 lb of AAtrex + 0.8 lb of Princep, respectively.) Refer to **Comment No. 2** following **TABLE 2** for AAtrex 4L and Princep 4L conversions.

\*\*\* For cocklebur, yellow nutsedge, and velvetleaf control on fine-textured soils above 3% organic matter, apply 2.25 lbs/A of AAtrex Nine-O, or equivalent rates of AAtrex 4L, or the same total amount of AAtrex + Princep with 1.33 - 1.67 pts/A of **Moccasin II PLUS**.

### Tank Mixture with AAtrex

#### Postemergence

##### Weeds Controlled

barnyardgrass (watergrass)	foxtail, yellow	prickly sida
cocklebur*	jimsonweed	purslane
crabgrass	kochia	ragweed
crowfootgrass	lambquarters	smartweed
fall panicum	morningglory*	velvetleaf
foxtail, giant	mustard	yellow nutsedge
foxtail, green	pigweed	

\* partial control

Apply 1.0 pt/A of **Moccasin II PLUS** + 1.3 lbs/A of AAtrex Nine-O\* on coarse soils, 1.33 pts/A of **Moccasin II PLUS** + 1.8 lbs/A of AAtrex Nine-O on medium soils, or 1.33 - 1.67 pts/A of **Moccasin II PLUS** + 1.8 - 2.2 lbs/A\*\* of AAtrex Nine-O on fine soils. 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

Apply to corn plants no taller than 12 inches. Direct applications to corn taller than 5 inches to the base of the corn plants. Applications to corn plants less than 5 inches tall may be made over the top. Occasionally, some corn leaf burn may occur, but this should not affect later growth or yield. Do not apply this postemergence tank mixture in fluid fertilizer, or severe crop injury may occur.

\* When using AAtrex 4L, use equivalent rates. One lb of AAtrex Nine-O = 1.8 pts of AAtrex 4L.

\*\* For better control of cocklebur, morningglory, velvetleaf, and yellow nutsedge on fine-textured soils above 3% organic matter, apply 2.2 lbs/A of AAtrex Nine-O, or equivalent rate of AAtrex 4L, with 1.33 - 1.67 pts/A of **Moccasin II PLUS**.

Tank mixtures of **Moccasin II PLUS** + AAtrex may be applied following use of any registered preplant surface-applied, preplant incorporated, or pre-emergence corn herbicide, including **Moccasin II PLUS** + AAtrex.

##### RESTRICTION

- Do not apply more than 3.9 pts of **Moccasin II PLUS**, or more than 2.5 lbs of AAtrex ai/A during any one crop year. Refer to the AAtrex label for geographic, soil-texture, and rotational restrictions.

### Tank Mixture with Banvel

#### Preemergence

Use this tank mixture only on field corn which is flat-planted (no furrows) in CO, IA, IL, IN, KS, MN, NE, OH, SD, and WI.

In addition to the weeds controlled by **Moccasin II PLUS** alone, **Moccasin II PLUS** + Banvel, applied preemergence, also controls lamb-quarters, ragweed, and smartweed and will provide partial control of cocklebur, jimsonweed, morningglory, and velvetleaf.

Apply **Moccasin II PLUS** + Banvel preemergence. Broadcast 1.0 pt/A of Banvel with 1.33 pts/A of **Moccasin II PLUS** on medium soils, or with 1.33 - 1.67 pts/A of **Moccasin II PLUS** on fine soils. Apply this tank mixture to the soil surface at planting or after planting, but before 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 before corn emergence. If it is necessary to rotary hoe to break the soil crust, do not disturb the soil more than 1/2 inch deep.

##### PRECAUTION

- Avoid drift to sensitive non-target plants, such as soybeans, during application, or injury may occur.

##### RESTRICTIONS

- Do not apply with aircraft.
- Do not apply on coarse soils or on soils with less than 2.5% organic matter.

#### Postemergence for Control of Pigweed (Mid-Atlantic states, including DE, MD, PA, VA, and WV)

Apply 1.0 - 1.5 pts/A of **Moccasin II PLUS** + 0.5 - 1.0 pt/A of Banvel or Clarity® by ground equipment when pigweed plants are less than 3 inches tall and before corn is taller than 5 inches in a minimum of 20 gals of spray per acre. Use the lower rate on coarse-textured and low organic matter soils. Use the higher rate on fine-textured and high organic matter soils.

##### PRECAUTION

- Avoid drift to sensitive non-target plants, such as soybeans, during application, or injury may occur.

##### RESTRICTION

- Do not apply with aircraft.

### Tank Mixture with AAtrex or Princep + Prowl for Prolonged Control of Lambquarters and Pigweed in Field Corn Only (Northeast U.S., including MI, IN, KY, and States East of These)

For prolonged control of lambquarters and pigweed, in addition to a broad spectrum of annual broadleaf and grass weeds, **Moccasin II PLUS** in tank mix combination with AAtrex\* or Princep + Prowl 4E may be applied after planting, but before corn or weeds emerge. Apply by ground equipment in a minimum of 10 gals of water or 20 gals of liquid fertilizer. Apply by air in a minimum of 5.0 gals of water. Refer to **TABLE 3** of this label for rates of **Moccasin II PLUS**, AAtrex, or Princep to be applied. Apply Prowl 4E according to the rates in **TABLE 4**.

\* Do not apply **Moccasin II PLUS** in tank mix combination with AAtrex 80W + Prowl, as this combination is not compatible. Other AAtrex formulations may be used.

**Mixing Instructions:** See **Comment No. 1** following **TABLE 2**.

**TABLE 4**

#### Prowl 4E - Broadcast Rates Per Acre

Soil Texture	Percent Organic Matter in Soil		
	Less than 1.5%	1.5% - 3%	Over 3%
Coarse	1.5 - 2.0 pts	2.0 pts	3.0 pts
Medium	2.0 pts	3.0 pts	3.0 pts
Fine	2.0 pts	3.0 pts	3.0 pts

Observe all directions for use, restrictions, and limitations on the respective product labels when applying these products in tank mix combination. Refer to the Prowl 4E label for replanting instructions in the event of crop loss.



## Tank Mixture with AAtrex or Princep, or AAtrex + Princep with Gramoxone Brands, Landmaster BW, Touchdown, or Roundup

### Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone brands, Landmaster BW, Touchdown brands, or Roundup brands should be tank mixed with **Moccasin II PLUS** + AAtrex, **Moccasin II PLUS** + Princep, or **Moccasin II PLUS** + AAtrex + Princep. See **Comment No. 7** following **TABLE 2**. The **Moccasin II PLUS**, **Moccasin II PLUS** + AAtrex or Princep, or **Moccasin II PLUS** + AAtrex + Princep portion of the tank mixture provides preemergence control of the weeds listed on this label in the tank mixture section for **Moccasin II PLUS**, **Moccasin II PLUS** + AAtrex or Princep, or **Moccasin II PLUS** + AAtrex + Princep – **Preplant Surface, Preplant Incorporated, or Preemergence**.

### Application

Apply before, during, or after planting, but before the corn emerges. Add Gramoxone brands, Landmaster BW, Touchdown brands, or Roundup brands and apply as directed on the product label.

### Gramoxone Brands

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

### RESTRICTION

- Do not apply combinations containing Gramoxone brands in suspension-type liquid fertilizers, as the activity of paraquat will be reduced.

### Landmaster BW

27 - 54 ozs/A depending on weed species and size. See the Landmaster BW label for weeds controlled, rates for specific weeds, and other information concerning use.

### Touchdown Brands or Roundup Brands

See the Touchdown brand or Roundup brand label for weeds controlled, rates, and other use directions.

Apply in 20 - 60 gals of water or fluid fertilizer per acre with ground equipment.

On coarse soils, apply 1.0 pt/A of **Moccasin II PLUS** with 1.3 lbs of AAtrex Nine-0\* or Princep Caliber 90\*, or with 0.7 lb of AAtrex Nine-0\*\* + 0.7 lb of Princep Caliber 90\*\*. On medium soils, apply 1.33 pts/A of **Moccasin II PLUS** with 1.8 lbs of AAtrex Nine-0 or Princep Caliber 90, or with 0.9 lb of AAtrex Nine-0 + 0.9 lb of Princep Caliber 90. On fine soils\*\*\*, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS** with 1.8 - 2.2 lbs of AAtrex Nine-0 or Princep Caliber 90, or with 0.9 - 1.1 lbs of AAtrex Nine-0 + 0.9 - 1.1 lbs of Princep Caliber 90.

\* Use Princep in preference to AAtrex when heavy infestations of crabgrass or fall panicum are expected.

\*\* When using the tank mixture of **Moccasin II PLUS** + AAtrex Nine-0 + Princep Caliber 90, use equal rates of AAtrex and Princep as shown when heavy broadleaf weed infestations are expected. When heavy infestations of crabgrass or fall panicum are expected, use a 1:2 ratio of AAtrex + Princep instead of the 1:1 ratio given. (Example: Total AAtrex Nine-0 + Princep Caliber 90 = 1.8 lbs/A, use 0.6 lb of AAtrex + 1.2 lbs of Princep, respectively.) Refer to **Comment No. 2** following **TABLE 2** for AAtrex 4L and Princep 4L conversions.

\*\*\* For cocklebur, yellow nutsedge, and velvetleaf control on fine-textured soils above 3% organic matter, apply 2.25 lbs/A of AAtrex Nine-0, or equivalent rate of AAtrex 4L, or the same total amount of AAtrex + Princep, with 1.33 - 1.67 pts/A of **Moccasin II PLUS**.

## Tank Mixture with AAtrex; or AAtrex + 2,4-D; or AAtrex + 2,4-D + Banvel

### Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, **Moccasin II PLUS** applied in combination with AAtrex will kill most emerged small annual weeds. Apply **Moccasin II PLUS** + AAtrex before, during, or after planting, but before corn emerges, according to the rates in **TABLE 3**.

Where heavy crop residues exist, add 0.8 - 1.6 pts/A of an appropriately labeled 3.8 lbs ai/gals of 2,4-D amine (such as Weedar 64, Weedar 64A, DMA-4 Herbicide, Weedone® 638 or Formula 40) to the spray tank last and apply in a minimum of 25 gals of carrier per acre.

As carriers, nitrogen solutions and complete liquid fertilizers, applied before corn emergence, enhance burndown of existing weeds, and therefore, are recommended instead of water. Add X-77 surfactant at 1.0 - 2.0 qts/100 gals of diluted spray, or another appropriate surfactant at its labeled rate, or add crop oil concentrate plus 28% liquid nitrogen (or equivalent). Apply before weeds are taller than 3 inches. If alfalfa is present, add Banvel to the spray mixture at 0.33 - 0.5 pt/A and apply before alfalfa is taller than 6 inches.

For fields with existing sod grasses (e.g., brome grass, orchardgrass, rye, or timothy), when existing weeds exceed 3 inches in height or when very dry conditions exist, add Gramoxone brands at the rate indicated on the product label in place of or in addition to 2,4-D, as indicated above. Do not apply Gramoxone brands in suspension-type liquid fertilizer. Observe all directions for use, restrictions, and limitations on the respective product labels when applying these products in tank mix combination.

## Tank Mixture with Marksman in Conservation Tillage Field and Silage Corn

In conservation tillage systems where corn is planted directly into a cover crop or previous crop residue, **Moccasin II PLUS** + Marksman will kill most emerged small annual weeds. Apply **Moccasin II PLUS** + Marksman before, during, or after planting, but before corn emergence on medium and fine soils with greater than 2.5% organic matter. For fields with existing vegetation taller than 3 inches or when very dry conditions exist, add Gramoxone brands at its standard rate. **Moccasin II PLUS** + Marksman may be applied post-emergence to corn shorter than 3 inches and before weedy grasses exceed the 2-leaf stage.

As carriers, nitrogen solutions and complete liquid fertilizers, applied before corn emergence, enhance burndown of existing weeds. Do not apply Gramoxone brands in suspension-type liquid fertilizer or use on emerged corn.

Refer to the Marksman label and follow all directions, limitations, restrictions, and information regarding application and use in corn.

## Tank Mixture with Balance Pro Field Corn Only

**Moccasin II PLUS** and Balance Pro have a complementary response and weed control profile which allows various tank mix rate combinations to be considered. The addition of Balance Pro will improve the control of certain problem weeds, including Texas panicum, woolly cupgrass, and wild proso millet. **Moccasin II PLUS** improves both the duration and spectrum of annual grass and small-seeded broadleaf weed control, in particular foxtails (yellow foxtail), witchgrass, and yellow nutsedge.

To reduce the risk of an adverse crop response, the Balance Pro label does not allow applications to coarse-textured soils with less than 1.5% organic matter and warns about applications to all soils with less than 1.5% organic matter or with pH greater than 7.5, as well as applications made to areas in fields with clay knolls, eroded hillsides, and exposed subsoil. **Moccasin II PLUS** has no adverse crop response warnings or use restrictions.

Listed below are compensating rate options for combinations of **Moccasin II PLUS** and Balance Pro, i.e., higher rates of **Moccasin II PLUS** are combined with lower rates of Balance Pro and vice versa. Select a rate option for **Moccasin II PLUS** Balance Pro by weighing the intensity of problem weed pressure (population presence and density) and your acceptance for risk of an adverse crop response. For example, where Texas panicum, woolly cupgrass, or wild proso millet is a primary target weed, use a tank-mix combination with a higher Balance Pro rate for the given soil type.

Where the acceptance of an adverse crop response risk is low and/or a more general weed spectrum is targeted (especially yellow foxtail, witchgrass, or yellow nutsedge), use a tank-mix combination with a higher **Moccasin II PLUS** rate for the given soil type. Where a target weed is listed as controlled on both product labels, a tank-mix combination option including intermediate rates of both products may be used. Where a target weed is listed as controlled on only one product label, do not apply a rate of that product below what is labeled for that weed on the individual product label, or unacceptable control may result. Follow all other directions for use, rate limitations, precautions, and restrictions on both the **Moccasin II PLUS** and Balance Pro product labels.

**For coarse-textured soils:** Where 1.5 or 1.88 oz/A of Balance Pro is used, 1.0 - 1.33 pts/A of **Moccasin II PLUS** may be applied. Do not use Balance Pro on coarse-textured soils with less than 1.5% organic matter.

**For medium-textured soils:** Where 1.5 oz/A of Balance Pro is used, rates as low as 1.33 pts/A of **Moccasin II PLUS** may be applied. Where 1.88 or 2.25 oz/A of Balance Pro is used, rates as low as 1.0 pt/A of **Moccasin II PLUS** may be applied. **Moccasin II PLUS** can be used in combinations with Balance Pro at rates up to 1.67 pts/A on medium-textured soils.

**For fine-textured soils:** Where 1.5 oz/A of Balance Pro is used, rates as low as 1.33 pts/A of **Moccasin II PLUS** may be applied if the soil organic matter is less than 3%; if the soil organic matter is 3% or greater, apply 1.67 pts/A of **Moccasin II PLUS**. Where 1.88 or 2.25 oz/A of Balance Pro is used, rates as low as 1.33 pts/A of **Moccasin II PLUS** may be applied. Where 3.0 oz/A or more of Balance Pro is used, rates as low as 1.0 pt/A of **Moccasin II PLUS** may be applied. **Moccasin II PLUS** can be used in combinations with Balance Pro at rates up to 2.0 pts/A on fine-textured soils if the organic matter is 3% or greater.

### Tank Mixtures for Postemergence Salvage Weed Control Field Corn Only

For postemergence control of weeds in specific types of field corn, the **Moccasin II PLUS** combinations listed below may be used. Full season weed control from early preplant, preplant incorporated, or preemergence treatments can lead to maximum yield potential under competition-free conditions. However, if control of emerged weeds is needed, a postemergence program listed below can be applied to provide residual control for the remainder of the season.

Follow all label directions, instructions, restrictions, and limitations for each product used. For each tank mixture with **Moccasin II PLUS**, apply only to the specific field corn type specified on the tank mix product label.

#### PRECAUTIONS

- In-row weed control may be reduced because of lack of coverage when applied to corn over 4 inches tall.
- Do not use fluid fertilizer with these mixtures or corn injury may occur.

### Moccasin II PLUS + Glufosinate Products Registered for Postemergence Use in LibertyLink® Corn (such as Interline or Liberty)

These tank mixtures can be applied postemergence to weeds and corn from seed designated as LibertyLink or corn warranted by Bayer CropScience as being tolerant to Liberty Herbicide or Ignite 280 SL Herbicide. Products containing glufosinate are used to provide postemergence control of a broad spectrum of grass and broadleaf weeds while the **Moccasin II PLUS** provides residual control of grasses and certain broadleaf weeds listed in the label section **Moccasin II PLUS Applied Alone – Weeds Controlled**. Refer to section **Moccasin II PLUS Alone – Preplant Incorporated or Preemergence** and use the minimum rate per soil texture and organic matter classification

for season-long residual control. Refer to the label of the glufosinate tank mix product (eg. Interline, Liberty Herbicide, etc.) for the postemergence application rates according to weed species and their maximum height at the time of postemergence application. Where multiple weed species are present, use the highest labeled rate to control the species and growth stages present.

Follow all applicable use directions, limitations, restrictions, and precautions regarding application to corn on the **Moccasin II PLUS** and tank mix product labels. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

### Moccasin II PLUS + Touchdown Brands or Roundup Brands for Postemergence Application to Glyphosate-Tolerant Corn (e.g., Roundup Ready® or Agrisure® GT)

The tank mixture of **Moccasin II PLUS** + Touchdown brands or Roundup brands can be applied postemergence to weeds and to corn designated as glyphosate-tolerant. Application may be applied postemergence to glyphosate-tolerant corn from emergence until corn reaches 30 inches tall or the V8 stage (8 leaves with collars), whichever comes first. This mixture will provide postemergence control of weed species on the Touchdown brand or Roundup brand label and residual control of weed species on the **Moccasin II PLUS** label. Use the minimum **Moccasin II PLUS** rate postemergence with Touchdown or Roundup in glyphosate-tolerant corn as specified in the **CORN (ALL TYPES) - Moccasin II PLUS Alone – Preplant Incorporated or Preemergence** section of this label according to soil texture and organic matter. Refer to the Touchdown brand or Roundup brand label and follow appropriate use directions, application procedures, precautions, and limitations. Refer to the Touchdown brand or Roundup brand label for directions for control of problem species. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

### Moccasin II PLUS + Touchdown Brands or Roundup Brands + AAtrex for Postemergence Application to Glyphosate-Tolerant Corn (e.g., Roundup Ready or Agrisure GT)

The tank mixture of **Moccasin II PLUS** + AAtrex + Touchdown brands or Roundup brands can be applied postemergence to weeds and to corn designated as glyphosate-tolerant. Application may be applied postemergence to glyphosate-tolerant corn from emergence up to 12 inches in height. This mixture will provide postemergence control of weed species on the Touchdown brand or Roundup brand label and residual control of weed species on the **Moccasin II PLUS** + AAtrex label. Use the minimum **Moccasin II PLUS** + AAtrex rate postemergence with Touchdown or Roundup in glyphosate-tolerant corn as specified in the **CORN - Moccasin II PLUS Combinations – Tank Mixture with AAtrex or Princep, or AAtrex + Princep – Preplant Incorporated or Preemergence** section and **TABLE 3** of this label according to soil texture and organic matter.

Follow all applicable use directions, limitations, precautions, and information regarding application to corn on the **Moccasin II PLUS**, AAtrex, and Touchdown brand or Roundup brand labels for application to glyphosate-tolerant corn. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

### COTTON Moccasin II PLUS Alone

#### Application

Apply **Moccasin II PLUS** postemergence to cotton and preemergence to weeds at 0.5 - 1.33 pts/A, according to the state limitations in the following **Postemergence** section.

AR, KS, LA, MS, TN, and Bootheel of MO - Apply preemergence only at 0.5 - 1.0 pts/A on sandy loams, 0.66 - 1.33 pts/A on medium soils, or 1.0 - 1.33 pts/A on fine soils.

NM, OK, and TX - Apply preplant incorporated or preemergence at 1.0 pt/A on sandy loams, 1.0 - 1.33 pts/A on medium soils, or 1.33 pts/A on fine soils.

## Fall Application for Glyphosate-Resistant Italian Ryegrass Control

Apply **Moccasin II PLUS** for residual control at 1.33 - 1.67 pts/A in the fall (September 1 - December 1) after harvest of the previous crop and before Italian ryegrass emergence. Use the lower rate for coarse-textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate deeper than 2 - 3 inches if tillage follows the application of **Moccasin II PLUS**. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone brands can be tank mixed with **Moccasin II PLUS** to control emerged ryegrass. Refer to the Gramoxone brands label for specific rates, application instructions, and restrictions. Other registered herbicides may be tank mixed with **Moccasin II PLUS** for control or improved control of other weeds present at the time of application.

### RESTRICTIONS

- Do not apply to frozen ground.
- Do not apply more than the seasonal maximum for cotton (2.6 pts/A, depending on soil texture) through any combination of applications.

### Preplant Incorporated (NM, OK, and TX Only)

Apply to the soil and incorporate into the top inch of soil immediately before planting, at planting, or after planting, but before crop or weeds emerge. Use a rolling cultivator or similar implement to uniformly incorporate not more than 1 inch deep. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. Where furrow irrigation is used, wet the top of the bed for best results. If the crop is to be planted on beds, apply and incorporate after bed formation. Plant cotton below the zone of incorporation; i.e., at least 1 inch on fine soils and 1.5 inches on coarse and medium soils. If incorporated prior to planting, use a planter that will result in the least soil disturbance.

**NOTE:** For best control of yellow nutsedge and suppression of seedling johnsongrass, apply **Moccasin II PLUS** preplant incorporated at the maximum rate for the soil texture, whether applied alone or mixed with Caparol 4L.

### Preemergence

Apply to the soil surface at planting or after planting, but before weeds or crop emerge.

### Postemergence

Apply **Moccasin II PLUS** broadcast over the top or directed to the soil surface according to the rate limitations listed below by state. Over the top postemergence application may be made not later than 100 days before harvest, and directed-postemergence application may be made not later than 80 days before harvest. Application before weeds emerge or after clean cultivation to remove existing weeds is necessary since **Moccasin II PLUS** will not control emerged weeds. **Moccasin II PLUS** postemergence may be applied over any previous registered herbicide treatment. In sprinkler-irrigated areas, sprinkler irrigate after application with 1/2 - 1 inch of water (1/2 inch on coarse-textured soils to 1 inch on fine-textured soils) to incorporate **Moccasin II PLUS**. In furrow-irrigated areas, apply **Moccasin II PLUS**, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In non-irrigated areas, if at least 1/2 inch of rainfall does not occur within 10 days after application, cultivate with a rolling cultivator or similar implement that provides uniform shallow incorporation of **Moccasin II PLUS**.

**VA, NC, SC, GA, FL, and AL:** Apply postemergence at 1.0 - 1.33 pts/A.

**TN, AR, KS, MS, MO, and LA:** Apply postemergence at 0.5 - 1.33 pts/A.

**TX, OK, NM, AZ, CA, and Clay Soils in AR:** Apply postemergence at 1.0 - 1.33 pts/A before August 1.

### Multiple Applications

Apply as a preplant incorporated or preemergence treatment and follow with an application postemergence to cotton before weeds emerge or after clean cultivation to remove existing weeds, since **Moccasin II PLUS** will not control emerged weeds. Apply **Moccasin II PLUS** postemergence over a previous preplant or pre-emergence **Moccasin II PLUS** application as shown in the following table.

State	Multiple Moccasin II PLUS Applications to Cotton		
	Preplant Incorporated or Preemergence (Pt/A)	+	Postemergence (Pt/A)
MS, LA, TN, AR, KS, MO	0.5 - 1.33 (Preemergence Only)	+	0.5 - 1.33
TX, OK, NM	1.0 - 1.33	+	1.0 - 1.33 before August 1
NC, VA	1.0 - 1.33 (Preemergence Only)	+	1.0 - 1.33

In sprinkler-irrigated areas, sprinkler irrigate after application with 1/2 - 1 inch of water (1/2 inch on coarse-textured soils to 1 inch on fine-textured soils) to incorporate **Moccasin II PLUS**. In furrow-irrigated areas, apply **Moccasin II PLUS**, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In nonirrigated areas, if at least 1/2 inch of rainfall does not occur within 10 days after application, cultivate with a rolling cultivator or similar implement that provides uniform shallow incorporation of **Moccasin II PLUS**.

For best control of yellow nutsedge and suppression of seedling johnsongrass, apply **Moccasin II PLUS** preplant incorporated, preemergence, or postemergence to cotton and preemergence to weeds at the maximum rate for the soil texture, whether applied alone or in combinations. These treatments may be applied over previous registered herbicide treatments.

### PRECAUTIONS

- To avoid crop injury, do not apply over the top in fluid fertilizer or any other adjuvant, surfactant, oil, or other pesticide not specified in the **COTTON** section of this label.
- To avoid concentration in the seed furrow, do not make broadcast applications of **Moccasin II PLUS** to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width must not exceed the width of the bottom of the furrow.
- In furrow-planted cotton, to avoid concentration in the furrow and potential injury, do not apply **Moccasin II PLUS** postemergence until after first "knifing" or cultivation to level soil surface.

### RESTRICTIONS

- Do not apply more than a total of 2.0 pts/A on coarse soils or 2.6 pts/A of **Moccasin II PLUS** on medium and fine soils during a growing season.
- Do not graze or feed forage or fodder from cotton to livestock, or illegal residues may result.
- Do not apply **Moccasin II PLUS** on sand or loamy sand soils, or in areas where water is likely to "pond" over the bed.
- Do not apply on Taloka silt loam.
- Do not use in Gaines County, TX.

## COTTON

### Moccasin II PLUS Combinations

#### Tank Mixture with Caparol 4L

Apply **Moccasin II PLUS** tank mixtures with Caparol 4L preplant incorporated or preemergence in water or fluid fertilizer. When fluid fertilizer is used as a carrier for **Moccasin II PLUS**, either alone or in combination with Caparol 4L, mix only the amount that will be sprayed in one operation. These mixtures should not be allowed to stand without agitation. Only use water as a carrier for postemergence-directed application.

In addition to those weeds controlled by **Moccasin II PLUS** alone, **Moccasin II PLUS** + Caparol 4L, applied preplant incorporated or pre-emergence, controls the following weeds: junglerice, wild oats, annual morningglory, groundcherry, hairy nightshade, lambsquarters, malva, mustard, prickly sida (teaweed), purslane, ragweed, and shallow-germinating seedlings of cocklebur and coffeeweed. As a postemergence-directed application, Caparol 4L



provides postemergence control and residual control of weeds on its label, while **Moccasin II PLUS** provides residual control of weed species on its label. **Moccasin II PLUS** will not control emerged weeds.

### Preplant Incorporated or Preemergence

Apply **Moccasin II PLUS** + Caparol 4L, either preplant incorporated or pre-emergence, using the appropriate rate from **TABLE 5**. Plant cotton below the zone of incorporation; i.e., at least 1.0 inch on fine soils and 1.5 inches on coarse and medium soils. If incorporated before planting, use a planter that will cause the least soil disturbance.

**TABLE 5**

#### Moccasin II PLUS + Caparol 4L - Cotton (NM, OK, TX)

Use Areas	Soil Texture	Broadcast Rates Per Acre	
		Moccasin II PLUS	Caparol 4L
ALL	Sand, loamy sand	DO NOT USE	
OK, and Blacklands and Gulf Coast of TX	Loams	0.8 - 1.33 pts	2.4 pts
	Clays	1.33 pts	4.8 pts
Rio Grande Valley of TX	Loams	0.8 - 1.33 pts	3.2 pts
	Clays	1.33 pts	4.8 pts
NM; High Plains, Rolling Plains, Edwards Plateau of TX; and Southwest TX	Sandy loam	0.8 - 1.0 pt	1.6 pts
	Loams	0.8 - 1.33 pts	2.4 pts
	Sandy clay loams	1.33 pts	2.4 pts
	Other clay soils	1.33 pts	3.2 pts

### Postemergence Directed (AR, AZ, CA, LA, MS, NM, OK, TN, TX, and MO)

Tank mix **Moccasin II PLUS** with Caparol 4L in water and apply postemergence directed in cotton for control of emerged weeds listed on the Caparol 4L label and residual preemergence control of weeds controlled by **Moccasin II PLUS** and Caparol 4L, or application may be made after cultivation for residual pre-emergence control. These treatments may be applied over previous registered treatments, including **Moccasin II PLUS**, provided the maximum label rate of any product is not exceeded. Do not apply over the top of cotton or injury may occur.

Apply **Moccasin II PLUS** + Caparol 4L in a minimum of 20 gals of spray volume per acre. Follow the directions, restrictions, and precautions on the Caparol 4L label when Caparol 4L is applied as a postemergence-directed application. Refer to the directions, restrictions, and precautions for use of **Moccasin II PLUS** under the **COTTON - Moccasin II PLUS Alone – Postemergence** section.

Refer to the Caparol 4L label for further instructions, restrictions, and limitations.

#### PRECAUTION

- To avoid concentration in the seed furrow, do not make broadcast applications of **Moccasin II PLUS** + Caparol 4L to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width should not exceed the width of the bottom of the furrow.

#### RESTRICTIONS

- Do not apply on sand or loamy sand soils, or in areas where water is likely to “pond” over the bed.
- Do not apply in cut areas of newly leveled fields, or in areas of excess salt.
- Do not apply to glandless cotton varieties.
- Do not graze or feed forage or fodder from cotton to livestock, or illegal residues may result.
- Do not apply on Taloka silt loam.
- Do not use in Gaines County, TX.

### Tank Mixture with Cotoran DF

Apply **Moccasin II PLUS** in tank mixture with Cotoran DF preemergence for control of those weeds controlled by **Moccasin II PLUS** alone and those as listed on the Cotoran DF label. This combination will also control spotted spurge, hyssop spurge, nodding spurge, and prostrate spurge. Apply to the soil surface at planting or after planting, but before weeds or crop emerge, using the appropriate rates from **TABLE 6**. Apply the tank mixture postemergence to cotton but preemergence to weeds, or apply postemergence to both cotton and broadleaf weeds for control of weeds on the Cotoran DF label. Apply as a directed, semi-directed, or over the top spray. **Moccasin II PLUS** will not control emerged weeds but will provide preemergence control of species on its label. Where rate ranges are given for Cotoran DF, use the higher rate when applying postemergence to weeds that are 2 inches or less. These treatments may be applied over previous registered treatments, including **Moccasin II PLUS**, provided the maximum label rate of any product is not exceeded.

### Mixing Instructions

Incompatibility may occur when tank mixing **Moccasin II PLUS** and Cotoran DF. To help overcome this condition, fill the spray tank 1/4 full with water or fluid fertilizer and start agitation, add the Cotoran DF and allow it to become dispersed. Add X-77 at 0.5% volume/volume final spray (4.0 pts/100 gals), then add the **Moccasin II PLUS** and finally the rest of the water or fluid fertilizer. Agitate during mixing and application to maintain a uniform suspension. Do not use fluid fertilizer as a carrier for postemergence applications.

**TABLE 6**

#### Moccasin II PLUS + Cotoran DF - Cotton

Soil Texture	Broadcast Rates Per Acre		
	Moccasin II PLUS (pts)		Cotoran DF*** (lbs)
	Area 1*	Area 2**	
Sand, loamy sand	DO NOT USE		
Sandy loam	0.5 - 1.0	0.8 - 1.0	1.2
Loam, silt loam, silt	0.66 - 1.33	1.0 - 1.33	1.2 - 1.9
Fine soil	1.0 - 1.33	1.33	1.9 - 2.4

\* Area 1 = AR, LA, MS, Bootheel of MO and TN.

\*\* Area 2 = Eastern OK, Gulf Coast, Rio Grande Valley, and Eastern TX.

\*\*\* When using Cotoran 4L, use equivalent rates. Multiply lbs of Cotoran DF by 1.7 to get pts of Cotoran 4L.

Refer to the Cotoran labels for further instructions, restrictions, and limitations.

#### PRECAUTIONS

- To avoid crop injury, do not apply **Moccasin II PLUS** + Cotoran on sand or loamy sand soils, or in areas where water is likely to “pond” over the bed. Do not use on Taloka silt loam.
- To avoid concentration in the seed furrow, do not make broadcast applications of **Moccasin II PLUS** + Cotoran to cotton planted in furrows more than 2 inches deep. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width should not exceed the width of the bottom of the furrow.
- The use of Cotoran following the use of a systemic insecticide at planting may result in crop injury.

#### RESTRICTIONS

- Do not feed treated forage or gin trash to livestock, or graze treated areas.
- Do not use in Gaines County, TX.



## Tank Mixture of Moccasin II PLUS or Moccasin II PLUS + Cotoran with Gramoxone Brands, Touchdown Brands, or Roundup Brands

### Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where cotton is planted directly into a cover crop, stale seedbed, or previous crop residues, the contact herbicides Gramoxone brands, Touchdown brands, or Roundup brands may be added to a tank mix of either **Moccasin II PLUS** or **Moccasin II PLUS + Cotoran**. When used as directed, the Gramoxone brands portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds. Touchdown or Roundup combinations will control emerged annual and perennial weeds when applied as directed on the Touchdown or Roundup label. The **Moccasin II PLUS** and **Moccasin II PLUS + Cotoran** portion of the tank mixture provides preemergence control of the weeds listed on this label in the **Moccasin II PLUS** and **Moccasin II PLUS + Cotoran** sections, respectively.

Refer to the label of each product used in combination and observe the planting details, information regarding application, geographical restrictions, and all other precautions and limitations. Refer to **Mixing Instructions** under **Tank Mixture with Cotoran DF** section.

### Application

Apply before, during, or after planting, but before the cotton emerges. Apply **Moccasin II PLUS** at 0.8 - 1.0 pt/A on sandy loams, medium-, and fine-textured soils. Refer to **TABLE 6** for the Cotoran DF rates.

Apply in 20 - 60 gals of water or fluid fertilizer per acre with ground equipment.

### Gramoxone Brands

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

### Touchdown Brands or Roundup Brands

See the Touchdown or Roundup label for weeds controlled, rates, and other use directions.

### PRECAUTIONS

- 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.
- Refer to the Cotoran labels and the **Tank Mixture with Cotoran DF** section of this label for further instructions, precautions, and limitations.

### RESTRICTIONS

- Do not apply combinations containing Gramoxone brands in suspension-type liquid fertilizers, as the activity of paraquat will be reduced.
- Do not apply **Moccasin II PLUS + Cotoran 4L + Roundup** in tank mixture because of compatibility problems.
- Do not use in Gaines County, TX.

## Tank Mixture with MSMA, MSMA + Caparol, or MSMA + Cotoran

Tank mix **Moccasin II PLUS** with MSMA in water and applied postemergence directed for control of emerged weeds listed on the MSMA product label and residual preemergence control of weeds controlled by **Moccasin II PLUS**. The addition of Caparol or Cotoran will add control of weed species on their respective labels.

### Postemergence Directed (AL, AR, AZ, CA, FL, GA, LA, MS, NC, NM, OK, SC, TN, TX, VA, and Bootheel of MO)

Apply **Moccasin II PLUS + MSMA** postemergence directed to cotton at least 3 inches tall according to the directions, limitations, and precautions on the MSMA product label, as well as the directions, limitations, and precautions for use of **Moccasin II PLUS** in the section for **COTTON – Moccasin II PLUS**

**Alone – Postemergence.** Do not apply after first cotton bloom. These treatments may be applied over previous registered treatments, including **Moccasin II PLUS**, provided the maximum label rate of any product is not exceeded. Cotoran or Caparol may be added to the **Moccasin II PLUS + MSMA** tank mixture according to the respective label directions for application to cotton at least 3 inches tall. When these mixtures are used, follow the mixing instructions for **Moccasin II PLUS + Caparol** or **Cotoran** and then add the MSMA product.

### RESTRICTION

- Do not use **Moccasin II PLUS** in tank mix with premixes of MSMA plus herbicides other than those registered for use in tank mixture with **Moccasin II PLUS** on cotton.

## Tank Mixture with Treflan for Post-Directed Followed by Soil Incorporation Applications

Apply **Moccasin II PLUS** as a tank mixture with Treflan in cotton for improved late-season weed control when used as an incorporated lay-by type application. This combination may be applied after the cotton is at least 3 inches tall and has reached the 4 true-leaf stage. Direct the application to the soil surface and away from the crop foliage. Incorporate using a sweep or rolling type cultivator to provide uniform and shallow mixing into the top 2 inches of soil. Refer to each product label for the appropriate application rates by soil type and for this application timing, and follow all product use limitations and restrictions.

## Tank Mixture with Touchdown Brands or Roundup Brands for use on Roundup Ready Cotton Only

Apply **Moccasin II PLUS** as a tank mixture with Touchdown or Roundup in water postemergence over the top or postemergence directed for control of emerged weeds listed on the Touchdown or Roundup labels and for residual preemergence control of weeds listed on the **Moccasin II PLUS** label. See the **COTTON (ALL TYPES) – Moccasin II PLUS Alone – Postemergence** section of this label for rates and timings of **Moccasin II PLUS** and follow the Touchdown or Roundup label for their respective rates, application methods, and application timing restrictions. Do not add additional spray adjuvants, surfactants, fertilizer additives, or pesticides to this tank mixture if applied postemergence over the top or unacceptable injury may occur. Refer to the Touchdown brand or Roundup brand label and follow appropriate use directions, application procedures, precautions, and limitations.

### PRECAUTION

- Postemergence over the top applications of this tank mixture may cause temporary injury in the form of necrotic spotting to exposed cotton leaves, which will not affect normal plant development.

### RESTRICTIONS

- Do not apply this tank mixture postemergence to any cotton variety unless it is designated Roundup Ready and unless the Touchdown or Roundup formulation being used is registered for postemergence use in Roundup Ready Cotton.
- Do not apply Touchdown or Roundup postemergence over the top to cotton past the growth stage limit specified on their respective labels.
- Do not use on sand or loamy sand soils in Gaines County, TX.

## SOYBEAN, IMMATURE SEED

Apply **Moccasin II PLUS** preplant or preemergence for the control or suppression of grass and small-seeded weeds in immature-seed soybean or other food-grade soybeans. For specific rates, see the rate table listed below.

### Preplant Surface-Applied

For minimum-tillage or no-tillage systems only, apply **Moccasin II PLUS** alone up to 45 days before planting. Use only split applications for treatments made 30 - 45 days before planting, with 2/3 the labeled broadcast rate for the crop and soil texture applied initially and the remaining 1/3 applied at planting. Treatments less than 30 days before planting may be made either as a split or

a single application. If weeds are present at the time of treatment, apply in a tank mixture combination with a contact herbicide (e.g., Gramoxone brands, Touchdown, or Roundup). Observe directions for use, precautions, and restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.

### Preplant Incorporated

Apply **Moccasin II PLUS** to the soil and incorporate into the top 2 inches of soil within 14 days before planting, using a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate **Moccasin II PLUS** after bed formation, unless specified otherwise.

### Preemergence

Apply **Moccasin II PLUS** during planting (behind the planter) or after planting, but before weeds emerge.

#### Moccasin II PLUS Broadcast Rates Per Acre

Soil Texture	Percent Organic Matter in Soil	
	< 3%	≥ 3%
Coarse	1.0 - 1.33 pts	1.33 pts
Medium	1.33 - 1.67 pts	1.33 - 1.67 pts
Fine	1.33 - 1.67 pts	1.67 - 2.0 pts

**Moccasin II PLUS** will not control emerged weeds.

#### RESTRICTIONS

- Do not cut for hay within 120 days following a **Moccasin II PLUS** application.
- Do not use for forage within 60 days following a **Moccasin II PLUS** application.
- Do not apply more than 2.0 pts/A of **Moccasin II PLUS** during any one crop year.

### GRASSES GROWN FOR SEED (ID, OR, WA) Moccasin II PLUS Applied Alone

To control weeds and volunteer grasses in established grasses grown for seed, apply **Moccasin II PLUS** to established stands of tall fescue, orchardgrass, perennial ryegrass, fine fescue, bentgrass, and Kentucky bluegrass just before, during, or immediately following the first fall rains or just before or during a late summer or early fall irrigation, but before target grasses emerge. The seed crop must have had one seed harvest or been established at least one year. The post-harvest residue (straw) should be evenly spread, removed, or burned before applying **Moccasin II PLUS**. Rainfall or irrigation is required after application and before weed emergence for best control. **Moccasin II PLUS** will provide preemergence control/suppression of volunteer seedlings of perennial ryegrass, fine fescue species, tall fescue, orchardgrass, bentgrass, and Kentucky bluegrass. **Moccasin II PLUS** will control those weed species listed in the **Moccasin II PLUS Alone** section of the **Moccasin II PLUS** label and will suppress or control rattail fescue, annual bluegrass, Italian ryegrass, California brome, downy brome, and roughstalk bluegrass.

Apply **Moccasin II PLUS** by ground equipment in a minimum of 10 gallons of water per acre using the rate listed below according to grass species.

Established Grass Crop Grown for Seed	Pt/A
Fine fescue species	1.0
Perennial ryegrass	1.0
Bentgrass	1.0 - 1.33
Kentucky bluegrass	1.0 - 1.33
Orchardgrass	1.0 - 1.33
Tall fescue	1.0 - 1.33

### PRECAUTIONS

- Tank mixtures with other pesticides, or the addition of an adjuvant, can increase the risk of crop injury. Application to perennial ryegrass and fine fescue stands under stress may cause crop injury.
- If weed escapes occur following a **Moccasin II PLUS** application, an application of a postemergence herbicide may be necessary to control escapes. When making such an application, follow all directions, precautions, and limitations on the label of the postemergence herbicide.
- Control may be decreased if excessive straw from the previous harvest is present at application and/or insufficient rainfall/irrigation occurs.

### RESTRICTIONS

- Apply **Moccasin II PLUS** only once per crop year.
- Do not graze forage regrowth for 60 days following application west of the Cascades.
- In areas east of the Cascades, do not graze forage regrowth for 150 days following application.
- Hay may be harvested anytime between seed harvest and the next application of *S*-metolachlor.
- Do not apply after the November 15 or poor control may result.

### HORSERADISH

Apply a single application of **Moccasin II PLUS** at a broadcast rate of 1.0 - 1.33 pts/A to the soil surface after planting, but before weed or crop emergence (i.e., preemergence). Use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils. A band application may also be used, applying proportionally less spray mixture on the area actually treated. **Moccasin II PLUS** will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical means.

#### RESTRICTIONS

- Make only one application of **Moccasin II PLUS** per crop.
- Do not apply more than 1.33 pts/A of **Moccasin II PLUS** per crop.

### PEANUTS

#### Moccasin II PLUS Alone

Apply **Moccasin II PLUS**, either preplant incorporated, postplant incorporated, or preemergence, using the appropriate rate specified below.

### Preplant Incorporated or Preemergence

Follow instructions for use of **Moccasin II PLUS** alone under **APPLICATION PROCEDURES**.

### Postplant Incorporated

Apply and shallowly incorporate **Moccasin II PLUS** into the soil after planting, but before peanut germination. Incorporation depth and incorporating implements must be kept above the seed, or seed will be damaged.

Apply **Moccasin II PLUS** alone, preplant incorporated, postplant incorporated, or preemergence, at a broadcast rate of 1.0 - 1.33 pts/A in the Southeast\* and 0.8 - 1.33 pts/A in NM, OK, and TX.

\* In the Southeast, use 1.33 - 2.0 pts/A and apply preemergence for partial control of Florida beggarweed.

**Moccasin II PLUS** alone may be applied as directed after any of the following preplant incorporated herbicides when used according to their labels: Balan at 3.0 - 4.0 qts/A; Treflan E.C. at 1.0 pt/A; Sonalan at 1.25 - 3.0 pts/A; Pursuit at 0.25 pt/A; or Prowl at 1.0 - 2.0 pts/A.

#### RESTRICTIONS

- Do not graze or feed peanut forage or fodder to livestock for 30 days following application.
- Pre-Harvest Interval (PHI): Do not apply within 90 days of harvest.

**PEANUTS**  
**Moccasin II PLUS Combinations**

**Tank Mixture with BALAN L.C.**

**Moccasin II PLUS** + Balan tank mixture applied preplant incorporated controls those weeds listed under **Moccasin II PLUS Applied Alone** and those weeds as listed on the Balan label.

Apply 1.0 - 1.33 pts/A of **Moccasin II PLUS** + 3.0 - 4.0 qts/A of Balan in a minimum of 10 gals of spray volume per acre for ground application or in a minimum of 5.0 gals of spray volume per acre for aerial application. Follow the procedures for Balan on the Balan label for soil preparation and incorporation of this tank mix. Apply and incorporate **Moccasin II PLUS** + Balan up to 14 days prior to planting.

Follow all restrictions and precautions on the Balan label.

**Tank Mixture or Sequentially with Pursuit**

The tank mixture or sequential treatment of **Moccasin II PLUS** and Pursuit controls all weeds controlled by **Moccasin II PLUS** alone and by Pursuit alone. Refer to the **Moccasin II PLUS Applied Alone** section for weeds controlled by **Moccasin II PLUS** and to the Pursuit label for weeds controlled by Pursuit.

Refer to the respective labels for application methods, timing, rates, restrictions, and precautions; and use in accordance with the more restrictive label. Do not exceed the label rate of either product. **Moccasin II PLUS** will not control emerged weeds.

**Tank Mixture with Sonalan**

The tank mixture controls all weeds controlled by **Moccasin II PLUS** alone and by Sonalan alone. Refer to the **Moccasin II PLUS Applied Alone** section for weeds controlled by **Moccasin II PLUS** and to the Sonalan label for weeds controlled by Sonalan.

Apply **Moccasin II PLUS** + Sonalan preplant incorporated, using the appropriate rate from **TABLE 7**. Follow labeled soil preparation procedures for Sonalan.

**TABLE 7**

**Moccasin II PLUS + Sonalan - Peanuts**

Soil Texture	Broadcast Rates Per Acre			
	Southeast		NM, OK, TX	
	Moccasin II PLUS	Sonalan	Moccasin II PLUS	Sonalan
Coarse	1.0 - 1.33 pts	1.25 - 2.0 pts	0.8 - 1.33 pts	1.25 - 2.0 pts
Medium	1.0 - 1.33 pts	1.75 - 2.5 pts	0.8 - 1.33 pts	1.75 - 2.5 pts
Fine	1.0 - 1.33 pts	2.25 - 3.0 pts	0.8 - 1.33 pts	2.25 - 3.0 pts

**Tank Mixture with Prowl**

**Moccasin II PLUS** + Prowl applied preplant incorporated controls all weeds controlled by **Moccasin II PLUS** alone plus Texas panicum, field sandbur, johnsongrass from seed, lambsquarters, kochia, annual spurge, and other species on the Prowl label. Apply **Moccasin II PLUS** + Prowl by ground or by aerial equipment within 14 days before planting. Incorporate into the top 1 - 2 inches of soil before planting and within 7 days of application, using a finishing disk or similar implement capable of providing uniform incorporation. If peanuts will be planted on beds, apply and incorporate after bed formation. Refer to the **Incorporation** instructions of the respective labels for additional directions.

Apply **Moccasin II PLUS** + Prowl preplant incorporated, using the appropriate rates from **TABLE 8**.

**TABLE 8**

**Moccasin II PLUS + Prowl - Peanuts**

Soil Texture	Broadcast Rates Per Acre	
	NM, OK, TX	Other Peanut Growing States
	Moccasin II PLUS + Prowl	
Sand, loamy sand	0.8 + 1.0 - 1.5 pts	1.0 - 1.33 + 1.5 - 2.0 pts
Sandy loam	0.8 - 1.0 + 1.0 - 1.5 pts	1.0 - 1.33 + 1.5 - 2.0 pts
Fine soil	1.33 + 1.0 - 1.5 pts	1.33 + 1.5 - 2.0 pts

**Tank Mixture with Gramoxone Brands**

**Moccasin II PLUS** + Gramoxone brands applied at ground cracking will control or suppress small (1- to 6-inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the **Moccasin II PLUS Applied Alone** section of this label. Apply Gramoxone brands plus the appropriate **Moccasin II PLUS** rate from the **PEANUTS - Moccasin II PLUS Alone** section in a minimum spray volume of 20 gals/A with ground equipment. Refer to the Gramoxone brands label and follow all directions, limitations, and restrictions.

**Tank Mixture with Gramoxone Brands + Basagran**

The addition of Basagran to the **Moccasin II PLUS** + Gramoxone brands mixture will result in improved control of such problem broadleaf weeds as prickly sida, cocklebur, smartweed, and bristly starbur. **Moccasin II PLUS** + Gramoxone brands + Basagran applied at ground cracking will control or suppress small (1- to 6-inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the **Moccasin II PLUS Applied Alone** section of this label. Apply Basagran + Gramoxone brands with the appropriate **Moccasin II PLUS** rate from the **PEANUTS - Moccasin II PLUS Alone** section in a minimum spray volume of 20 gals/A with ground equipment. Refer to the Gramoxone brands and Basagran labels and follow all directions, limitations, and restrictions.

**Tank Mixture with Gramoxone Brands + Butyrac 200 or Butoxone 200**

The addition of Butyrac 200 or Butoxone 200 to the **Moccasin II PLUS** + Gramoxone brands mixture will result in improved control of such problem broadleaf weeds as sicklepod, morning glory, and cocklebur. **Moccasin II PLUS** + Gramoxone brands + Butyrac 200 or Butoxone 200 applied at ground cracking will control or suppress small (1- to 6-inch) emerged annual grass and broadleaf weeds and provide residual control of weed species listed in the **Moccasin II PLUS Applied Alone** section of this label. Apply Gramoxone brands + Butyrac 200 or Butoxone 200 with the appropriated **Moccasin II PLUS** rate from the **PEANUTS - Moccasin II PLUS Alone** section in a minimum spray volume of 20 gals/A with ground equipment. Refer to the Gramoxone brands and Butyrac 200 or Butoxone 200 labels and follow all directions, limitations, and restrictions for each product.

**Tank Mixture with Basagran**

**Moccasin II PLUS** + Basagran applied at ground cracking will control species on the Basagran label and provide residual control of species listed in the **Moccasin II PLUS Applied Alone** section of this label. Apply 1.0 - 2.0 pts/A of Basagran in 20 gals/A, depending on weed species and stage of growth as specified on the Basagran label, with the appropriate **Moccasin II PLUS** rate from the **PEANUTS - Moccasin II PLUS Alone** section. A second Basagran application may be made in all peanut-growing areas, if needed. Refer to the respective labels and follow all directions, limitations, and restrictions for each product.



## Tank Mixture with Basagran + Butyrac 200 or Butoxone 200

**Moccasin II PLUS** + Basagran + Butyrac 200 or Butoxone 200 applied at ground cracking will control species on their labels, especially morning glories. Apply 1.5 - 2.0 pts/A of Basagran + 8.0 fl oz/A of Butyrac 200 or Butoxone 200 in 20 gals/A, depending on weed species and stage of growth as specified on the Basagran label, with the appropriate **Moccasin II PLUS** rate from the **PEANUTS - Moccasin II PLUS Alone** section. A second Basagran + Butyrac 200 or Butoxone 200 application may be made in all peanut-growing areas, if needed. Refer to the respective labels and follow all directions, limitations, and restrictions for each product.

### Sequentially with Storm®

Apply **Moccasin II PLUS** according to the directions for **Moccasin II PLUS Alone** and follow with a postemergence treatment of Storm as specified on its label for the control of weeds listed on the **Moccasin II PLUS** label and on the Storm label. Refer to the **PEANUTS - Moccasin II PLUS Alone** section and to the Storm label and follow all directions, limitations, and restrictions for each product.

### Multiple Applications

Where weed pressure is heavy or where species difficult to control are expected, **Moccasin II PLUS** is most effective when used as follows:

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

##### Preplant Incorporated

Apply **Moccasin II PLUS** preplant incorporated as directed under **PEANUTS - Moccasin II PLUS Alone** or apply **Moccasin II PLUS** + Balan preplant incorporated as directed previously in this section. Refer to the respective section for weeds controlled.

#### OR

##### Preemergence to Before “Ground Cracking”

Apply **Moccasin II PLUS** any time from preemergence to before “ground cracking” at 1.0 - 2.0 pts/A for extended control of weeds not yet emerged. **Do not use Moccasin II PLUS after peanut emergence.** If peanuts have emerged, use Dual Magnum® according to its label: Peanuts - Combinations - Multiple Applications.

Follow the PPI or PRE Application By:

##### Lay-By

**Do not use Moccasin II PLUS.** Apply Dual Magnum at lay-by as directed under the Peanuts - Alone section of the Dual Magnum label.

#### Southwest Only (NM, OK, TX)

**1st Application:** Apply **Moccasin II PLUS** preplant incorporated or preemergence to before “ground cracking” as directed under **PEANUTS - Moccasin II PLUS Alone** or apply **Moccasin II PLUS** + Balan preplant incorporated as directed previously in this section. **Do not use Moccasin II PLUS after peanut emergence.** If peanuts have emerged, use Dual Magnum according to its label.

**2nd Application: Do not use Moccasin II PLUS.** Apply Dual Magnum at lay-by as directed under the Peanuts - Alone section of the Dual Magnum label. Use only when late germinating weeds are expected to be a problem. Refer to the product Applied Alone section for a list of weeds controlled.

##### RESTRICTIONS

- Do not apply more than the equivalent of 2.67 lbs of active ingredient of **Moccasin II PLUS** per acre during any one year. If Dual Magnum is used as a sequential treatment, the lbs of active ingredient (1.0 pt = 0.95 lb) plus the lbs of active ingredient of **Moccasin II PLUS** must not exceed 2.67 lbs.
- **Do not use Moccasin II PLUS, or Dual IIG Magnum after peanuts have emerged.**
- Do not graze or feed peanut forage or fodder to livestock for 30 days following application.
- Pre-Harvest Interval (PHI): Do not apply within 90 days of harvest.

## BEANS, PEAS, AND LENTILS Moccasin II PLUS Alone

For use on beans, peas, and lentils, including garbanzo, great northern beans, kidney beans, lima beans, mung beans, navy beans, peas (English\*; southern peas, including blackeye, pinkeye, crowder, etc.), pinto beans, snap beans (green, wax, string), lentils, and lupines (sweet, white, white sweet, and grain).

### Fall Application

1. Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
2. Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
3. Apply after October 31 north of Route 136 in IL.

In all locations, 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-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67 - 2.0 pts/A on medium-textured and 2.0 pts/A on fine-textured soils. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not incorporate deeper than 2 - 3 inches. Minimize furrow and ridge formation in the tillage operations.

##### RESTRICTIONS

- Do not apply to frozen ground.
- If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for beans, peas, and lentils.

### Spring Application

Apply **Moccasin II PLUS**, either preplant incorporated or preemergence, using the appropriate rate specified below.

### Preplant Incorporated or Preemergence

Follow instructions for use of **Moccasin II PLUS Alone** under **APPLICATION PROCEDURES**. On coarse soils with less than 3% organic matter, apply 1.0 - 1.33 pts/A of **Moccasin II PLUS** or 1.33 pts/A if organic matter is 3% or greater. On medium soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS**. On fine soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS** if organic matter content is less than 3%, or 1.67 - 2.0 pts/A if organic matter content is 3% or greater.

\* On English peas, use only preemergence applications. If soils are cold and wet during pea germination and emergence, the use of **Moccasin II PLUS** may delay maturity and/or reduce yields.

##### RESTRICTIONS

- Do not cut for hay within 120 days following a **Moccasin II PLUS** application.
- Do not use for forage within 60 days following a **Moccasin II PLUS** application.
- Do not apply more than 2.0 pts/A of **Moccasin II PLUS** during any one crop year.

## BEANS, PEAS, AND LENTILS Moccasin II PLUS Combinations

##### RESTRICTION

- When applying **Moccasin II PLUS** in combination on beans, peas, and lentils, do not cut for hay within 120 days following application.

## Tank Mixture and Sequential Applications with Eptam Beans (Green or Dry)

This mixture controls all weeds controlled by **Moccasin II PLUS Alone** and by Eptam alone. Refer to the **Moccasin II PLUS Applied Alone** section of this label for weeds controlled by **Moccasin II PLUS Alone** and to the Eptam label for weeds controlled by Eptam.

### Preplant Incorporated

Follow instructions for use of **Moccasin II PLUS Alone** under **APPLICATION PROCEDURES**. **Sequential:** Apply Eptam alone preplant incorporated, as



specified on that label. Follow with a preemergence application of **Moccasin II PLUS**, at rates specified for **Moccasin II PLUS** alone, during planting (behind the planter) or after planting, but before the weeds or crop emerge.

Refer to the **PRODUCT INFORMATION** section of this label and to the Eptam label for weather, cultural practices, and all other precautions and limitations that affect performance of these products.

Apply 2.5 - 4.5 pts/A of Eptam 7E\* with **Moccasin II PLUS** as specified. On coarse soils, apply 0.8 pt/A of **Moccasin II PLUS** if organic matter content is less than 3%, or 1.0 pt/A if organic matter content is 3% or greater. On medium soils, apply 1.0 pt/A of **Moccasin II PLUS** if organic matter content is less than 3%, or 1.33 pts/A if organic matter content is 3% or greater. On fine soils, apply 1.33 pts/A of **Moccasin II PLUS** if organic matter is less than 3%, or 1.33 - 1.67 pts/A if organic matter is 3% or greater.

\* Refer to the Eptam label for rate limitations depending on geographical area, and for species and varietal restrictions.

#### RESTRICTION

- Do not apply more than 3.5 pts/A of Eptam 7E on small white beans or green beans grown on coarse-textured soils.

### Tank Mixture with Treflan Beans (Dry - Kidney, Navy, Pinto, etc.; Lima; and Snap)

**Moccasin II PLUS** + Treflan tank mix applied preplant incorporated controls those weeds listed under **Moccasin II PLUS Applied Alone** and those weeds listed for Treflan alone on the Treflan label. **Moccasin II PLUS** + Treflan may be applied by ground or by aerial equipment and incorporated up to 14 days prior to planting. Follow the procedures on this label and on the respective Treflan label using equipment that provides uniform 2-inch incorporation.

Apply **Moccasin II PLUS** + Treflan tank mix using the appropriate **Moccasin II PLUS** rate specified for **Moccasin II PLUS** alone, and the Treflan rate from the Dry Beans, and the Lima and Snap Beans sections of the respective Treflan label. Choose the product rate for the specific soil texture/organic matter classification and weed species expected.

### POTATOES Moccasin II PLUS Alone

Apply **Moccasin II PLUS**, either incorporated, preemergence, or postemergence to potatoes after hilling/lay-by, according to directions specified below for control of weeds listed under the **PRODUCT INFORMATION** section. Within a rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil. For application by center pivot irrigation, see the **Center Pivot Irrigation Application** section of this label.

#### Incorporated

Apply **Moccasin II PLUS** at 1.0 - 2.0 pts/A to the soil and incorporate into the top 3 inches before planting, using a finishing disk, harrow, rolling cultivator, or similar implement. Planting and later cultural practices should not bring untreated soil to the surface. Postplant incorporated application may be made any time after planting to drag-off, but before potato emergence. Use an implement that evenly distributes **Moccasin II PLUS** in the top 2 inches of soil. Do not damage potato seed pieces or sprouts with incorporation equipment.

#### Preemergence

Apply **Moccasin II PLUS** at 1.0 - 2.0 pts/A, either after planting as a pre-emergence, delayed preemergence, after drag-off or hilling treatment, but before weeds emerge. Up to 2.5 pts/A of **Moccasin II PLUS** alone may be used where soil organic matter is between 6% and 20%.

## Postemergence After Hilling/Lay-By

Apply 1.67 pts/A of **Moccasin II PLUS** postemergence to potatoes through after hilling/at lay-by to control **Moccasin II PLUS**-sensitive species for remainder of the growing season. This application will not control emerged weeds. It may be applied over a previous **Moccasin II PLUS** application, but do not apply more than 3.6 pts/A of **Moccasin II PLUS** in a single crop season.

#### PRECAUTION

- If cool, wet soil conditions occur after application, **Moccasin II PLUS** may delay maturity and/or reduce yield of Superior and other early maturing potato varieties. These directions for use do not apply to sweet potatoes or yams.

#### RESTRICTIONS

- Do not use on muck or peat soils.
- Do not apply both as a preemergence and an incorporated treatment.
- Pre-Harvest Interval (PHI): Do not harvest potatoes within 60 days after the at-planting to drag-off application.

### POTATOES Moccasin II PLUS Combinations

#### Tank Mixture with Tricor or MetriCor

In addition to those weeds controlled by **Moccasin II PLUS** alone, **Moccasin II PLUS** applied in tank mix combination with, or sequentially with, any of the registered Tricor/MetriCor formulations also controls the following broadleaf weeds: hairy, hemp sesbania, lambsquarters, prickly sida, ragweed, smartweed, velvetleaf, Venice mallow, and wild mustard; and will provide partial control of cocklebur, nightshade, and jimsonweed.

Apply **Moccasin II PLUS** at 1.0 - 2.0 pts/A plus the labeled Tricor/MetriCor use rate preemergence or postemergence to potatoes through after last hilling. Apply 1.0 - 1.33 pts/A of **Moccasin II PLUS** on coarse soils and 1.33 - 2.0 pts/A on other soil textures. Within this rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil. **Moccasin II PLUS** will not control emerged weeds.

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

#### PRECAUTIONS

- Make postemergence applications to potatoes, except center pivot, only as a directed or semi-directed spray to avoid chlorosis, minor necrosis, or leaf distortion.
- These directions for use do not apply to sweet potatoes or yams.

#### RESTRICTIONS

- Pre-Harvest Interval (PHI): Do not harvest potatoes treated with **Moccasin II PLUS** in tank mixture with Tricor/MetriCor within 60 days after application.
- Pre-Harvest Interval (PHI): Potatoes may not be harvested within 40 days after a lay-by application of **Moccasin II PLUS**.
- Do not use this tank mixture on muck or peat soils.

### Moccasin II PLUS + Lorox Tank Mixture (East of Rocky Mountains)

Apply **Moccasin II PLUS** in a tank mix combination with any of the registered Lorox formulations as a preemergence broadcast application to potatoes. Apply to the soil surface after planting and before emergence of the crop or after final drag-off according to the rates specified in **TABLE 9**.

Refer to the **PRODUCT INFORMATION** section of this label and to the Lorox label for precautionary statements, restrictions, application information, and weeds controlled.

**TABLE 9**

**Moccasin II PLUS + Lorox - Potatoes (East of Rocky Mountains)**

Soil Texture	Broadcast Rates Per Acre			
	1% to Less Than 3% Organic Matter		3 - 5% Organic Matter	
	Moccasin II PLUS	Lorox*	Moccasin II PLUS	Lorox*
<b>Coarse</b> Sandy loam	1.0 pt	1.0 - 1.5 lbs	1.33 pts	1.5 - 2.0 lbs
<b>Medium</b> Loam, silt loam, silt	1.33 pts	1.5 - 2.0 lbs	1.67 - 2.0 pts	2.0 - 2.5 lbs

\*When using Lorox L or Lorox DF, use equivalent rates. One pt of Lorox L equals 1.0 lb of Lorox DF.

**PRECAUTIONS**

- To avoid crop injury, do not use on sands or loamy sands.
- To avoid crop injury, do not incorporate or spray over the top of emerged potatoes.

**Tank Mixture with Prowl 4E**

In addition to the weeds controlled by **Moccasin II PLUS** alone, this tank mixture with Prowl 4E controls such problem species as kochia, lambsquarters, purslane, annual spurge, stinging nettle, and others specified on the Prowl 4E Alone label. Apply **Moccasin II PLUS** + Prowl 4E preemergence, preemergence incorporated, or early postemergence, according to the specific directions on the Prowl 4E label, using the rates in **TABLE 10**.

**TABLE 10**

**Moccasin II PLUS + Prowl 4E - Potatoes**

Soil Texture	Broadcast Rates Per Acre	
	Less Than 3% Organic Matter	More Than 3% Organic Matter
	Moccasin II PLUS + Prowl 4E*	
<b>Coarse</b>	1.0 - 1.33 pts + 1.0 - 1.5 pts	1.0 - 1.33 pts + 1.0 - 1.5 pts
<b>Medium</b>	1.33 pts + 1.5 - 2.0 pts	1.33 - 1.67 pts + 2.0 - 3.0 pts
<b>Fine</b>	1.33 - 1.67 pts + 2.0 - 3.0 pts	1.67 - 2.0 pts + 3.0 pts

\*When using other formulations of Prowl, use equivalent rates of active ingredient.

Refer to the **Moccasin II PLUS** and Prowl 4E labels and observe all directions, timings, limitations, precautions, and restrictions concerning the use of these products on potatoes and follow the most restrictive.

**Tank Mixture with Prowl 4E + Eptam**

In addition to the weeds controlled by **Moccasin II PLUS** alone, this tank mixture will control those species on the Prowl 4E and Eptam labels. Refer to the **Moccasin II PLUS** + Prowl 4E labels for rates of those products and add Eptam 7E at 3.5 - 7.0 pts/A, depending on geographical area. Refer to the respective **Moccasin II PLUS**, Prowl 4E, and Eptam labels and observe all directions, limitations, precautions, and restrictions concerning the use of these products on potatoes and follow the most restrictive.

**PUMPKINS**  
**Moccasin II PLUS Alone**

**Preemergence**

Apply **Moccasin II PLUS** preemergence (before the weeds have emerged) at 1.0 to 1.33 pts/A as an inter-row or inter-hill application in pumpkin. Leave 1 foot of untreated area over the row, or 6 inches to each side of the planted hill and/or any emerged pumpkin foliage (inter-row or inter-hill means not

directly over the planted seed or young pumpkin plants). Use the lower **Moccasin II PLUS** rate on soils light in texture (loamy sand or lighter) and low in soil organic matter (less than 3%). **Moccasin II PLUS** applied as a broadcast spray over the planted row or hill, or applications made directly to crop foliage, will increase the risk of injury (e.g., stand loss, delayed maturity, and loss of yield) to the pumpkin crop.

Because **Moccasin II PLUS** will not control emerged weeds, it must be applied before the weeds emerge. Weeds that are present should be controlled by another means, e.g., by mechanical means or using another herbicide.

**RESTRICTION**

- Pre-Harvest Interval (PHI): Do not apply within 30 days before pumpkin harvest.

**RHUBARB**

**Moccasin II PLUS Alone**

Apply **Moccasin II PLUS** at a broadcast rate of 0.67 - 1.33 pts/A to the soil surface in early spring, prior to crop emergence. Use lower rates on soils relatively coarse-textured and higher rates on fine-textured soils. A band application may also be used, applying proportionally less spray mixture on the area actually treated. **Moccasin II PLUS** will not control emerged weeds. Control emerged weeds with an appropriate registered foliar herbicide or by mechanical or physical means.

**RESTRICTIONS**

- Do not apply more than once per crop.
- Do not apply more than 1.33 pts/A of **Moccasin II PLUS** per crop.
- Pre-Harvest Interval (PHI): Do not harvest rhubarb within 62 days of the **Moccasin II PLUS** application.

**SAFFLOWER**

**Moccasin II PLUS Alone**

**Preplant Incorporated or Preemergence**

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

On coarse soils, apply 1.0 - 1.33 pts/A of **Moccasin II PLUS** if organic matter content is less than 3%, or 1.33 pts/A if organic matter is 3% or greater. On medium soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS**. On fine soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS** if organic matter content is less than 3%, or 1.67 - 2.0 pts/A if organic matter content is 3% or greater.

**GRAIN OR FORAGE SORGHUM**  
**(SEED TREATED WITH CONCEP®)**  
**Moccasin II PLUS Alone**

Apply **Moccasin II PLUS**, either preplant surface, preplant incorporated, pre-emergence, or postemergence using the appropriate rate specified below. Apply **Moccasin II PLUS** alone only when the sorghum seed has been properly treated with Concep seed treatment. Preplant or preemergence applications of **Moccasin II PLUS** not treated with Concep seed treatment will result in crop death.

**Fall Application for Italian Ryegrass Control**

Apply **Moccasin II PLUS** for residual control of glyphosate-resistant Italian ryegrass (*Lolium multiflorum*) using 1.33 - 1.67 pts/A in the fall (September 1 - December 1) after harvest of the previous crop and before Italian ryegrass emergence. Use the lower rate for coarse-textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate deeper than 2 - 3 inches if tillage follows the application of **Moccasin II PLUS**. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone brands can be tank mixed with **Moccasin II PLUS** to control emerged ryegrass. Refer to the Gramoxone brands label for specific rates, application instructions, and restrictions.

Other registered herbicides may be tank mixed with **Moccasin II PLUS** for control or improved control of other weeds present at the time of application.

#### RESTRICTIONS

- Do not apply **Moccasin II PLUS** to frozen ground.
- If a spring application is made, do not apply **Moccasin II PLUS** or any other product containing S-metolachlor the following spring to grain or forage sorghum.

#### Preplant Surface-Applied

Refer to instructions for use of **Moccasin II PLUS** under **APPLICATION PROCEDURES** section on this label. For minimum-tillage or no-tillage systems only, apply **Moccasin II PLUS** up to 45 days before planting in CO, IA, IL, KS, MO, NE, and SD. Use only split applications for treatments made 30 - 45 days prior to planting, with 2/3 of the broadcast rate applied initially and the remaining 1/3 at planting. Apply 1.5 pts/A of **Moccasin II PLUS** on medium soils or 1.67 pts/A on fine soils. Treatments less than 30 days prior to planting may be made either as a split or single application. Apply 1.33 pts/A of **Moccasin II PLUS** on coarse soils not more than 2 weeks prior to planting. Under dry conditions, irrigation after application is necessary to move **Moccasin II PLUS** into the soil.

#### Preplant Incorporated or Preemergence

Refer to instructions for use of **Moccasin II PLUS** under **APPLICATION PROCEDURES** section on this label. Broadcast 1.0 - 1.33 pts/A of **Moccasin II PLUS** on coarse soils, 1.33 - 1.5 pts/A on medium soils, or 1.33 - 1.67 pts/A on fine soils.

#### Postemergence

Refer to instructions for use of **Moccasin II PLUS** under **APPLICATION PROCEDURES** section on this label. **Moccasin II PLUS** may be applied broadcast postemergence at 1.0 - 1.33 pts/A on coarse soils, 1.33 - 1.5 pts/A on medium soils, or 1.33 - 1.67 pts/A on fine soils. **Moccasin II PLUS** will not control emerged weeds. Therefore, emerged weeds must be controlled by cultural or chemical means. When applied alone, **Moccasin II PLUS** will be safe to emerged sorghum. The risk of sorghum injury increases when adjuvants (e.g., non-ionic, crop oil), nitrogen sources (e.g., AMS, UAN), or fertilizers are applied with **Moccasin II PLUS**.

#### PRECAUTIONS

- If sorghum seed is not properly treated with Concep seed treatment, preplant and preemergence applications of **Moccasin II PLUS** will severely injure the crop.
- Under high soil moisture conditions prior to sorghum emergence, injury may occur following preplant and preemergence application of **Moccasin II PLUS**. The crop will normally outgrow this effect.
- Application of **Moccasin II PLUS** on sorghum grown under dry mulch tillage may result in crop injury.

#### RESTRICTIONS

- Except for the split preplant surface treatment, do not make more than one application per year.
- Pre-Harvest Interval (PHI): Do not apply **Moccasin II PLUS** postemergence within 75 days of harvest.

**GRAIN OR FORAGE SORGHUM  
(SEED TREATED WITH CONCEP)  
Moccasin II PLUS Tank Mixtures**

Apply **Moccasin II PLUS** preplant or preemergence (prior to sorghum emergence) tank mixtures with AAtrex in water or fluid fertilizer. Apply preplant or preemergence in tank mixtures only when the sorghum seed has been properly treated with Concep seed treatment. Preplant or preemergence applications of **Moccasin II PLUS** to sorghum not treated with Concep seed treatment will result in crop death.

**IMPORTANT: FOR TANK MIXTURES WITH AATREX (OR OTHER BRANDS OF ATRAZINE) - If applying Moccasin II PLUS in tank mixture with**

**AAtrex, all the restrictions and rate limitations on the AAtrex label must be followed if more restrictive/protective than those on this label. In addition, if AAtrex is/must be applied at rates lower than those on this label, broadleaf weed control may be affected. Refer to the AAtrex label for weeds controlled at the reduced rates.**

#### PRECAUTIONS

- Applications of **Moccasin II PLUS** + AAtrex on highly alkaline soils or on eroded areas where calcareous subsoils are exposed may cause sorghum injury.
- If sorghum seed is not properly treated with Concep, **Moccasin II PLUS** + AAtrex may severely injure the crop.
- Under high soil moisture conditions prior to sorghum emergence, injury may occur following preplant and preemergence application of **Moccasin II PLUS** + AAtrex. The crop will normally outgrow this effect.
- Use of **Moccasin II PLUS** + AAtrex on sorghum grown under dry mulch tillage may cause crop injury.

#### RESTRICTION

- Except for the split preplant surface treatment, do not make more than one application per year.

#### Tank Mixture with AAtrex

In addition to the weeds controlled by **Moccasin II PLUS Alone**, **Moccasin II PLUS** + AAtrex also controls the following broadleaf weeds when applied either preplant surface, preplant incorporated, or preemergence: cocklebur, common purslane, hairy nightshade, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf.

#### Preplant Surface-Applied

Refer to instructions for use of **Moccasin II PLUS** under **APPLICATION PROCEDURES** section on this label. For minimum-tillage or no-tillage systems only, **Moccasin II PLUS** + AAtrex may be applied up to 45 days prior to planting in IA, IL, eastern KS, MO, NE, and SD. Use only split applications for treatments made 30 - 45 days prior to planting, with 2/3 of the broadcast rate applied initially and the remaining 1/3 at planting. Apply 1.5 pts/A of **Moccasin II PLUS** + 1.7 - 2.0 lbs/A of AAtrex Nine-0\* on medium soils with 1.5% organic matter or greater. Apply 1.5 pts/A of **Moccasin II PLUS** + 1.7 - 2.0 lbs/A of AAtrex Nine-0 on fine soils with less than 1.5% organic matter, or apply 1.67 pts/A of **Moccasin II PLUS** + 2.0 - 2.2 lbs/A of AAtrex Nine-0 on fine soils with 1.5% organic matter or greater. Treatments less than 30 days prior to planting may be made either as a split or single application. Under dry conditions, irrigation after application is necessary to move **Moccasin II PLUS** + AAtrex into the soil.

#### PRECAUTION

- Use on coarse soils or on medium soils with less than 1.5% organic matter may cause crop injury.

#### Preplant Incorporated or Preemergence

Refer to instructions for use of **Moccasin II PLUS** under **APPLICATION PROCEDURES** on this label. On medium soils with 1.5% organic matter or greater, apply 1.0 pt/A of **Moccasin II PLUS** + 1.3 lbs/A of AAtrex Nine-0\*. On fine soils with less than 1.5% organic matter, apply 1.0 pt/A of **Moccasin II PLUS** + 1.3 lbs/A of AAtrex Nine-0; on fine soils with 1.5% organic matter or greater, apply 1.2 - 1.33 pts/A of **Moccasin II PLUS** + 1.6 - 1.8 lbs/A of AAtrex Nine-0.

\* When using AAtrex 4L, use equivalent rates. One lb of AAtrex Nine-0 equals 1.8 pts of AAtrex 4L.

#### PRECAUTION

- Use under the following conditions may cause crop injury: on coarse soils; on medium soils with less than 1.5% organic matter; in NM, OK, or TX, except in northeast OK and the TX Gulf Coast and Blacklands areas; and preplant incorporated in AZ or the Imperial Valley of CA.



**Tank Mixture of Moccasin II PLUS or Moccasin II PLUS + AAtrex, with Gramoxone Brands, Landmaster BW, Touchdown Brands, or Roundup Brands**

**Minimum-Tillage or No-Tillage Systems**

In minimum-tillage or no-tillage systems where sorghum (seed treated with Concep) is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone brands, Landmaster BW, Touchdown, or Roundup may be tank mixed with **Moccasin II PLUS** or **Moccasin II PLUS + AAtrex**. See **Comment No. 7** following **TABLE 2**. The **Moccasin II PLUS** or **Moccasin II PLUS + AAtrex** portion of the tank mixture provides preemergence control of the weeds listed on this label under the respective sections.

Refer to the label of each product used in combination and observe the planting details, restrictions, and all other precautions and limitations.

**Application**

Apply before, during, or after planting, but before sorghum emerges. Add Gramoxone brands, Landmaster BW, Touchdown brands, or Roundup brands and apply as directed on the product labels.

**Gramoxone Brands**

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

**Landmaster BW**

27 - 54 ozs/A depending on weed species and size. See the Landmaster BW label for weeds controlled, rates for specific weeds, and other information concerning use.

**Touchdown Brands or Roundup Brands**

See the Touchdown brand or Roundup brand labels for weeds controlled, rates, and other use directions.

**Sweet Sorghum (Seed Treated with Concep)**

Apply **Moccasin II PLUS** preplant surface, preplant incorporated, preemergence, or postemergence using the appropriate rate specified below, only when the sweet sorghum seed has been properly treated with Concep seed treatment. Preplant or preemergence applications of **Moccasin II PLUS** to sweet sorghum not treated with Concep seed treatment will result in crop death.

**Soil-Applied**

Apply **Moccasin II PLUS** up to 45 days before planting. Use only split applications for treatments made 30 - 45 days prior to planting, with 2/3 of the broadcast rate applied initially and the remaining 1/3 at planting. Treatments less than 30 days prior to planting may be made either as a split or single application. Under dry conditions, irrigation after application is necessary to move **Moccasin II PLUS** into the soil.

**Moccasin II PLUS Rates for Soil Applications to Sweet Sorghum**

Soil Type	30 - 45 Days Prior to Planting <sup>1</sup>	< 30 Days Prior to Planting	At Planting <sup>2</sup>
Coarse	DO NOT USE	1.33 pts/A	1.0 - 1.33 pts/A
Medium	1.5 pts/A	1.5 pts/A	1.33 - 1.5 pts/A
Fine	1.67 pts/A	1.67 pts/A	1.33 - 1.67 pts/A

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

<sup>2</sup> Preplant incorporated or preemergence.

**Post-Applied**

**Moccasin II PLUS** may be applied postemergence to sweet sorghum for residual control of grasses and small-seeded broadleaf weeds. Postemergence

application to sweet sorghum may be made to crop up to 5 inches in height. **Moccasin II PLUS** will not control emerged weeds. Therefore, emerged weeds must be controlled by cultural or other chemical methods. When applied alone, **Moccasin II PLUS** will be safe to emerged sweet sorghum. Use of adjuvants is prohibited on sweet sorghum.

**Moccasin II PLUS Rates for Postemergence Applications to Sweet Sorghum**

Soil Type	Postemergence Rate
Coarse	1.0 - 1.33 pts/A
Medium	1.33 pts/A
Fine	1.33 pts/A

**PRECAUTIONS**

- If sweet sorghum seed is not properly treated with Concep seed treatment, soil applications of **Moccasin II PLUS** prior to sorghum emergence will severely injure the crop.
- Under high soil moisture conditions prior to sweet sorghum emergence, injury may occur following soil applications of **Moccasin II PLUS**. The crop will normally outgrow this effect.
- To avoid crop injury, do not use **Moccasin II PLUS** on sorghum grown under dry mulch tillage.

**RESTRICTIONS**

- Do not apply more than once per season. **Moccasin II PLUS** may be applied either as a soil-applied treatment or a postemergence treatment, but not both.
- Pre-Harvest Interval (PHI): Do not apply **Moccasin II PLUS** postemergence within 90 days of harvest.

**SOYBEANS**

**Moccasin II PLUS Alone**

Apply **Moccasin II PLUS** preplant surface-applied, preplant incorporated, preemergence, or postemergence using the appropriate rate specified below. Follow instructions for use of **Moccasin II PLUS** alone under **APPLICATION PROCEDURES** section of this label.

**Fall Application for Spring Weed Control**

1. Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
2. Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
3. Apply after October 31 north of Route 136 in IL.

In all locations, 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-till or no-tillage systems on soils having greater than 2.5% organic matter, use 1.67 - 2.0 pts/A of **Moccasin II PLUS** on medium-textured and 2.0 pts/A of **Moccasin II PLUS** on fine-textured soils. Do not apply to frozen ground. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not incorporate deeper than 2 - 3 inches. Minimize furrow and ridge formation in the tillage operations.

**RESTRICTION**

- If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for soybeans of 2.5 pts/A depending on soil texture.

**Fall Application for Italian Ryegrass Control**

**Moccasin II PLUS** may be applied for residual control of Italian ryegrass (*Lolium multiflorum*), including glyphosate-resistant populations. Apply **Moccasin II PLUS** at 1.33 - 1.67 pts/A in the fall (September 1 - December 1) after harvest of the previous crop and prior to Italian ryegrass emergence. Use the lower **Moccasin II PLUS** rate for coarse-textured soils and the higher rate for fine-textured soils. A tillage operation may precede the application. Do not incorporate to a depth greater than 2 - 3 inches if tillage follows the application of **Moccasin II PLUS**. For fall applications after emergence of glyphosate-resistant Italian ryegrass, Gramoxone brands can be tank mixed with **Moccasin II PLUS** for control emerged ryegrass. Refer to the Gramoxone



brands label for specific rates, application instructions, and restrictions. Other registered herbicides may be tank mixed with **Moccasin II PLUS** for control of improved control of other weeds present at the time of application.

### RESTRICTIONS

- Do not apply to frozen ground.
- If a spring application is made, the combined total amount of **Moccasin II PLUS** applied in the fall plus the spring must not exceed the maximum seasonal *S*-metolachlor rate for soybeans (2.5 pts/A, depending on soil texture).

### Preplant Surface - Spring Application

Use on medium and fine soils with minimum-tillage or no-tillage systems in 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. Apply 2/3 the labeled rate of **Moccasin II PLUS** (1.67 pts/A on medium soils and 2.0 pts/A on fine soils) as a split treatment 30 - 45 days prior to planting and the remainder at planting. Applications made less than 30 days before planting may be as either a split or single treatment. Apply 1.33 pts/A of **Moccasin II PLUS** on coarse soils not more than 2 weeks prior to planting.

### RESTRICTIONS

- On soybeans, use up to 2.5 pts/A of **Moccasin II PLUS** preplant incorporated or preemergence treatment on soils having an organic matter content between 6% and 20%.
- Do not apply more than 2.5 pts/A per crop.
- Do not graze or feed treated soybean forage, hay, or straw to livestock 30 days following treatment.

### Preplant Incorporated or Preemergence

On coarse soils, apply 1.0 - 1.33 pts/A of **Moccasin II PLUS** if organic matter content is less than 3%, or 1.33 pts/A if organic matter content is 3% or greater. On medium soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS**. On fine soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS** if organic matter content is less than 3%, or 1.67 - 2.0 pts/A if organic matter content is 3% or greater.

### RESTRICTIONS

- On soybeans, use up to 2.5 pts/A of **Moccasin II PLUS** preplant incorporated or preemergence treatment on soils having an organic matter content between 6% and 20%.
- The total **Moccasin II PLUS** rate applied to soybeans during any one crop must not exceed 2.5 pts/A.
- Do not graze or feed treated soybean forage, hay, or straw to livestock 30 days following treatment, or illegal residues may result.

### Postemergence

Apply 1.0 - 1.33 pts/A as a postemergence treatment to soybeans from emergence up through the third trifoliate leaf stage. **Moccasin II PLUS** will not control emerged weeds so it must be applied to a weed-free soil surface or in a tank mixture with products that provide postemergence control of weeds present at the time of application.

**Moccasin II PLUS** can also be applied as part of a sequential soybean weed control program. If **Moccasin II PLUS** was applied as a preplant surface, preplant incorporated, or a preemergence treatment, a second treatment of **Moccasin II PLUS** can be applied postemergence provided that the total **Moccasin II PLUS** rate during any one crop does not exceed 2.5 pts/A.

### RESTRICTIONS

- Do not apply more than 1.33 pts/A postemergence.
- The total **Moccasin II PLUS** rate applied preplant, preemergence or postemergence to soybeans during any one crop must not exceed 2.5 pts/A (2.4 lbs ai/A of *S*-metolachlor).
- Pre-Harvest Interval (PHI): Make postemergence application at least 90 days before harvest.
- Do not graze or feed treated forage or hay from soybeans to livestock following a postemergence application of **Moccasin II PLUS**.

## SOYBEANS

### Moccasin II PLUS Combinations

Water or fluid fertilizer may be used as carrier for **Moccasin II PLUS** in combination with Tricor/MetriCor, Lorox, Canopy, Pursuit, Scepter, Sonalan, or Command.

### RESTRICTION

- For all of the following combinations, on soybeans use up to 2.5 pts/A **Moccasin II PLUS** preplant incorporated or preemergence treatment on soils having an organic matter content between 6% and 20%. The total **Moccasin II PLUS** rate applied to soybeans during any one crop year must not exceed 2.5 pts/A.

### Tank Mixture with Tricor/MetriCor

In addition to those weeds controlled by **Moccasin II PLUS Alone**, **Moccasin II PLUS + Tricor/MetriCor**, when applied as directed, also controls hairy nightshade, hemp sesbania, lambsquarters, prickly sida, ragweed, smartweed, velvetleaf, Venice mallow, and wild mustard, and provides partial control of cocklebur and jimsonweed.

Apply **Moccasin II PLUS** and Tricor/MetriCor preplant incorporated or preemergence, using the appropriate rates from **TABLE 11**.

### Preplant Incorporated or Preemergence

Follow instructions for use of **Moccasin II PLUS** alone under **APPLICATION PROCEDURES**.

### Sequential

Apply **Moccasin II PLUS** alone **Preplant Incorporated**, as specified in **TABLE 11** for this tank mixture. Follow with a preemergence application of Tricor/MetriCor during planting (behind the planter) or after planting, but before weeds or soybeans emerge. Refer to the Tricor/MetriCor label for planting details and soybean variety restrictions.

**TABLE 11**

### Moccasin II PLUS + Tricor/MetriCor - Soybeans

Soil Texture**	Broadcast Rates Per Acre				
	0.5% to Less than 3% Organic Matter		3% Organic Matter or Greater		
	Moccasin II PLUS	+ Tricor/MetriCor*	Moccasin II PLUS	+ Tricor/MetriCor*	
<b>Coarse</b> Loamy sand (over 2% organic matter), sandy loam	0.8 - 1.0 pt	+	0.33 lb	1.0 pt	+ 0.5 lb
<b>Medium</b>	1.0 - 1.33 pts	+	0.5 lb	1.33 pts	+ 0.67 lb***
<b>Fine</b>	1.33 pts	+	0.67 lb	1.33 - 1.67 pts	+ 0.67 lb
<b>Mississippi Delta only</b> Silty clay, clay	1.33 pts	+	1.0 lb	1.33 - 1.67 pts	+ 1.0 lb
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE				

\* When using Tricor/MetriCor 4, multiply lbs of DF by 1.5 to get pts/A.

\*\* On all sand and on loamy sand with less than 2% organic matter, do not use this tank mixture preemergence, or the sequential treatment. Do not use the tank mixture preplant incorporated on any sand, loamy sand, or sandy loam, or crop injury may occur.

\*\*\* Use 0.5 lb/A if applied preplant incorporated.

**RESTRICTION**

- Follow most restrictive limitations and precautions on the **Moccasin II PLUS - Soybeans Alone** section of the **Moccasin II PLUS** label and the Soybean directions on the Tricor/MetriCor label.

**PRECAUTION**

- To avoid crop injury, do not use the tank mix or sequential application on soil with less than 0.5% organic matter or on alkaline soil with a pH over 7.4, or crop injury may occur. If heavy rain occurs soon after application, crop injury may result, especially in poorly drained areas where water stands for several days.

**Tank Mixture with Lorox**

In addition to those weeds controlled by **Moccasin II PLUS** alone, **Moccasin II PLUS + Lorox**, applied preemergence, also controls the following broadleaf weeds: lambsquarters, prickly sida, ragweed, smartweed, Venice mallow, and wild mustard, and provides partial control of cocklebur, jimsonweed, morningglory, and velvetleaf.

**Preemergence**

Apply during planting (behind planter) or after planting, but before weeds or soybeans emerge. Refer to the Lorox label for planting details. Apply the appropriate rates from **TABLE 12**.

**PRECAUTION**

- To avoid crop injury, do not use on soil with less than 0.5% organic matter.

**TABLE 12**

**Moccasin II PLUS + Lorox - Soybeans**

Soil Texture*	Broadcast Rates Per Acre					
	0.5% to Less Than 3% Organic Matter			3% Organic Matter or Greater		
	Moccasin II PLUS	+	Lorox DF***	Moccasin II PLUS	+	Lorox DF***
<b>Coarse**</b>	0.8 pt	+	1.0 lb	1.0 pt	+	1.0 - 1.5 lbs
<b>Medium</b>	1.0 pt	+	1.0 - 1.5 lbs	1.33 pts	+	1.5 - 2.0 lbs
<b>Fine</b>	1.33 pts	+	2.0 lb	1.33 - 1.67 pts	+	2.5 - 3.0 lbs
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE					

- \* Do not use on sand, gravelly soils, or exposed subsoils.
- \*\* Do not use on loamy sand, except in the northeastern U.S. on loamy sand with over 1% organic matter.
- \*\*\* When using Lorox L or Lorox DF, use equivalent rates. One pt of Lorox L equals 1.0 lb of Lorox DF.

**Tank Mixture with Treflan**

**Moccasin II PLUS + Treflan** tank mix applied preplant incorporated controls those weeds listed under **Moccasin II PLUS Applied Alone** and those weeds listed for Treflan Alone on the Treflan label. **Moccasin II PLUS + Treflan** may be applied by ground or aerial equipment and incorporated up to 14 days before planting. Follow the procedures on the Treflan and **Moccasin II PLUS** labels, using equipment that provides uniform 2-inch incorporation.

Apply **Moccasin II PLUS + Treflan** tank mix using the appropriate rate from the **SOYBEANS - Moccasin II PLUS Alone** section of this label and the Treflan Alone section of the Treflan label for the specific soil texture/organic matter classification and weed species expected.

To control DNA-resistant goosegrass\* and other species on the respective labels where the soil organic matter is 3% or less, apply the rate in **TABLE 13**.

**TABLE 13**

**Moccasin II PLUS + Treflan - Organic Matter Content Less Than 3%**

Soil Texture	Broadcast Rates Per Acre		
	Moccasin II PLUS	Treflan E.C.**	
	Organic Matter Less Than 3%	Organic Matter	
		Less Than 2%	2 - 3%
<b>Coarse*</b>	0.8 - 1.0 pt	1.0 pt	1.5 pt
<b>Medium</b>	1.0 pt	1.5 pt	1.5 pt
<b>Fine</b>	1.33 pts	2.0 pt	2.0 pt

- \* Where a range of rates is given for **Moccasin II PLUS**, use the minimum rate where DNA-resistant goosegrass is the predominant species.
- \*\* When Treflan MTF or Treflan 5 is used, use comparable rates. Multiply pts of Treflan E.C. by 1 for Treflan MTF and by 0.8 for Treflan 5.

Follow the most restrictive limitations and precautions on the **SOYBEANS - Moccasin II PLUS Alone** section of the **Moccasin II PLUS** label and the Soybean directions on the Treflan labels.

**Tank Mixture with Scepter**

This tank mixture controls all weeds controlled by **Moccasin II PLUS** alone and by Scepter alone. Refer to the **Moccasin II PLUS Applied Alone** section for weeds controlled by **Moccasin II PLUS** and to the Scepter label for weeds controlled by Scepter. Refer to the Scepter label for geographical locations where this tank mixture may be applied.

Apply **Moccasin II PLUS + Scepter** preplant incorporated or preemergence, using rates in **TABLE 14**. Follow use directions under **Application Instructions** on the Scepter label. For preplant incorporated applications, apply and incorporate within 30 days before planting. Observe all other precautions and limitations on the Scepter labels.

**TABLE 14**

**Moccasin II PLUS + Scepter - Soybeans**

Soil Texture	Broadcast Rates Per Acre			
	Less Than 3% Organic Matter		3% or More Organic Matter	
	Moccasin II PLUS	Scepter	Moccasin II PLUS	Scepter
<b>Coarse</b>	0.8 pt	0.67 pt	1.0 pt	0.67 pt
<b>Medium</b>	1.0 pt	0.67 pt	1.33 pts	0.67 pt
<b>Fine</b>	1.33 pts	0.67 pt	1.33 - 1.67* pts	0.67 pt
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE			

- \* Use the higher rate of **Moccasin II PLUS** if heavy weed infestations are expected.

**RESTRICTION**

- Follow the most restrictive limitations and precautions on the **Moccasin II PLUS - Soybeans Alone** section of the **Moccasin II PLUS** label and the Soybean directions on the Scepter label.

### Tank Mixture with Canopy

This tank mixture controls all weeds controlled by **Moccasin II PLUS** alone and by Canopy alone. Refer to the **Moccasin II PLUS Applied Alone** section for weeds controlled by **Moccasin II PLUS** and to the Canopy label for weeds controlled by Canopy.

Apply preplant incorporated or preemergence, using the appropriate rates from **TABLE 15**.

#### Preplant Incorporated

Apply within 2 weeks of planting. Uniformly incorporate into the top 1 - 2 inches of soil before planting soybeans.

#### Preemergence

Apply after planting, but before soybeans emerge.

Follow the most restrictive limitations and precautions on the **Moccasin II PLUS - Soybeans Alone** section of the **Moccasin II PLUS** label and the Soybean directions on the Canopy label, including varietal restrictions.

**TABLE 15**

#### Moccasin II PLUS + Canopy - Soybeans

Soil Texture	Broadcast Rates Per Acre		
	Less Than 3% Organic Matter	3% or More Organic Matter	
	Moccasin II PLUS	Moccasin II PLUS	Canopy
Coarse	0.8 pt	1.0 pt	*
Medium	1.0 pt	1.33 pts	*
Fine	1.33 pts	1.33 - 1.67 pts	*

\* Refer to the Canopy label for appropriate rate according to geographical location, soil and organic matter classification, and pH limitations.

#### PRECAUTION

- Do not apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 7.0, except as noted on the Canopy label.

### Tank Mixture with Command

This tank mixture controls all weeds controlled by **Moccasin II PLUS** alone and by Command alone. Refer to the **Moccasin II PLUS Applied Alone** section for weeds controlled by **Moccasin II PLUS** and to the Command label for weeds controlled by Command.

Apply **Moccasin II PLUS** + Command preplant incorporated, using rates in **TABLE 16**. Follow all Command application instructions as to incorporation interval, geographical location, equipment operation, soil moisture conditions, etc.

Follow the most restrictive limitations and precautions on the **Moccasin II PLUS - Soybeans Alone** section of the **Moccasin II PLUS** label and the Soybean directions on the Command label, including rotational restrictions.

**TABLE 16**

#### Moccasin II PLUS + Command - Soybeans

Soil Texture	Broadcast Rates Per Acre			
	Moccasin II PLUS		Command 4E	
	0.5 - 3% Organic Matter	Greater Than 3% Organic Matter	Northern Area	Southern Area
Coarse	0.8 pt	1.0 pt	1.5 - 2.0 pts	2.0 - 2.5 pts
Medium	1.0 pt	1.33 pts	1.5 - 2.0 pts	2.0 - 2.5 pts
Fine	1.33 pts	1.33 - 1.67 pts	1.5 - 2.0 pts	2.0 - 2.5 pts

### Tank Mixture with Sonalan

This tank mixture controls all weeds controlled by **Moccasin II PLUS** alone and by Sonalan alone. Refer to the **Moccasin II PLUS Applied Alone** section for weeds controlled by **Moccasin II PLUS** and to the Sonalan label for weeds controlled by Sonalan.

Apply **Moccasin II PLUS** and Sonalan preplant incorporated, using the appropriate rates from **TABLE 17**.

#### Preplant Incorporated

Follow soil preparation procedures for Sonalan.

#### Sequential

Apply Sonalan alone preplant incorporated as specified on the Sonalan label. Follow with a preemergence application of **Moccasin II PLUS** during planting (behind the planter) or after planting, but before weeds or soybeans emerge.

**TABLE 17**

#### Moccasin II PLUS + Sonalan - Soybeans

Soil Texture	Broadcast Rates Per Acre			
	Less Than 3% Organic Matter		3% or More Organic Matter	
	Moccasin II PLUS	Sonalan	Moccasin II PLUS	Sonalan
Coarse	1.0 - 1.33 pts	1.25 - 2.0 pts	1.33 pts	1.25 - 2.0 pts
Medium	1.33 - 1.67 pts	1.75 - 2.5 pts	1.33 - 1.67 pts	1.75 - 2.5 pts
Fine	1.33 - 1.67 pts	2.25 - 3.0 pts	1.67 - 2.0 pts	2.25 - 3.0 pts
Muck or Peat (soils with more than 20% organic matter)	DO NOT USE			

\* For eastern black nightshade on these soils, apply Sonalan at 3.0 pts/A on medium and 3.5 pts/A on fine-textured soils, and follow with 2 incorporation passes.

Follow the most restrictive limitations and precautions on the **Moccasin II PLUS - Soybeans Alone** section of the **Moccasin II PLUS** label and the Soybean directions on the Sonalan label.

### Tank Mixture with Pursuit

This tank mixture controls all weeds controlled by **Moccasin II PLUS** alone and by Pursuit alone. Refer to the **Moccasin II PLUS Applied Alone** section for weeds controlled by **Moccasin II PLUS** and to the Pursuit label for weeds controlled by Pursuit. Refer to the Pursuit label for geographical locations where this tank mixture may be applied.

Apply **Moccasin II PLUS** + Pursuit early preplant, preplant incorporated, or preemergence after planting, using rates in **TABLE 18**. Application can be made in water or liquid fertilizer. Follow all use directions under Soil Applications on the Pursuit label. For early preplant and preplant incorporated applications, apply within 30 days before planting.

Follow the most restrictive limitations and precautions on the **Moccasin II PLUS - Soybeans Alone** section of the **Moccasin II PLUS** label and the Soybean directions on the Pursuit label, including rotational restrictions.

**TABLE 18****Moccasin II PLUS + Pursuit - Soybeans**

Soil Texture	Broadcast Rates Per Acre		
	Less Than 3% Organic Matter	3% or More Organic Matter	Less Than 3% - 3% or More Organic Matter
	Moccasin II PLUS	Moccasin II PLUS	Pursuit
<b>Coarse</b>	0.8 pt	1.0 pt	0.25 pt
<b>Medium</b>	1.0 pt	1.33 pts	0.25 pt
<b>Fine</b>	1.33 pts	1.33 - 1.67 pts	0.25 pt

**Sequential**

Apply **Moccasin II PLUS** early preplant, preplant incorporated, or preemergence after planting at 0.8 pt/A on coarse soils and 1.0 pt/A on medium- and fine-textured soils. Follow with a sequential postemergence application of Pursuit to control emerged weeds according to the Pursuit label. **Moccasin II PLUS** will improve the consistency and level of control from Pursuit on most grass species. Refer to the Pursuit postemergence label for a listing of weeds controlled, application rate, and growth stage limitations.

**Tank Mixture with Tricor/MetriCor, Scepter, Lorox, Canopy, or Pursuit, Plus Gramoxone Brands, Touchdown Brands, or Roundup Brands**

**Minimum-Tillage or No-Tillage Systems**

In minimum-tillage or no-tillage systems where soybeans are planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone brands, Touchdown brands, or Roundup brands may be added to a tank mix of either **Moccasin II PLUS** + Tricor/MetriCor, **Moccasin II PLUS** + Scepter, **Moccasin II PLUS** + Lorox, **Moccasin II PLUS** + Canopy, or **Moccasin II PLUS** + Pursuit. When used as directed, the Gramoxone brands portion of the tank mixture controls most emerged weeds and suppresses many perennial weeds. Touchdown or Roundup combinations will control emerged annual and perennial weeds when applied as directed on the Touchdown or Roundup label. The **Moccasin II PLUS** + Tricor/MetriCor, Scepter, Lorox, Canopy, or Pursuit portion of the tank mixture provides pre-emergence control of the weeds listed on this label in the tank mixture section for **Moccasin II PLUS** + Tricor/MetriCor, **Moccasin II PLUS** + Scepter, Dual II + Lorox, **Moccasin II PLUS** + Canopy, and **Moccasin II PLUS** + Pursuit, respectively.

Refer to the label of each product used in combination and observe the planting details, soybean variety restrictions, information regarding application to soybeans, geographical restrictions, and all other precautions and limitations.

**Application**

Apply before, during, or after planting, but before the soybeans emerge. Add Gramoxone brands, Touchdown brands, or Roundup brands and apply as directed on the product labels.

**Gramoxone Brands**

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

**RESTRICTION**

- Do not apply combinations containing Gramoxone brands in suspension-type liquid fertilizers, as the activity of paraquat will be reduced.

**Touchdown or Roundup**

See the Touchdown brand or Roundup brand label for weeds controlled, rates, and other use directions.

Apply in 20 - 60 gals of water or fluid fertilizer per acre with ground equipment.

**Moccasin II PLUS + Tricor/MetriCor + Gramoxone Brands, Touchdown Brands, or Roundup Brands**

On loamy sand with over 2% organic matter, apply 1.0 pt/A of **Moccasin II PLUS** + 0.33 - 0.5 lb/A of Tricor/MetriCor. On medium soils, apply 1.33 pts/A of **Moccasin II PLUS** + 0.5 - 0.67 lb/A of Tricor/MetriCor. On fine soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS** + 0.67 lb/A of Tricor/MetriCor.

\* When using Tricor/MetriCor 4 or Lexone® 4L, multiply lbs of DF by 1.5 to get pts/A.

**PRECAUTION**

- To avoid crop injury, do not use this tank mixture on soil with less than 0.5% organic matter, on alkaline soil with a pH over 7.4, or on all sand and on loamy sand with less than 2% organic matter. 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.

**Moccasin II PLUS + Scepter + Gramoxone Brands, Glyphosate Brands**

On coarse soils, apply 1.0 pt/A of **Moccasin II PLUS** + 0.67 pt/A of Scepter. On medium soils, apply 1.33 pts/A of **Moccasin II PLUS** + 0.67 pt/A of Scepter. On fine soils, apply 1.67 pts/A of **Moccasin II PLUS** + 0.67 pt/A of Scepter.

**RESTRICTIONS**

- Pre-Harvest Interval (PHI): Do not apply within 90 days of harvest.
- Do not graze or feed treated soybean forage, hay, or straw to livestock.

**Moccasin II PLUS + Lorox + Gramoxone Brands, Glyphosate Brands**

On coarse soils\*, apply 1.0 pt/A of **Moccasin II PLUS** + 1.0 - 1.5 lbs/A of Lorox DF\*\*. On medium soils, apply 1.33 pts/A of **Moccasin II PLUS** + 1.0 - 2.0 lbs/A of Lorox DF. On fine soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS** + 2.0 - 3.0 lbs/A of Lorox DF.

\* Do not use on loamy sand, except in the northeastern U.S. on loamy sand with over 1% organic matter, or injury may occur. Do not use on sand, gravelly soils, or exposed subsoils, or injury may occur.

\*\* When using Lorox L or Lorox DF, use equivalent rates. One pt of Lorox L equals 1.0 lb of Lorox DF.

**PRECAUTION**

- To avoid crop injury, do not use on soil with less than 0.5% organic matter.

**Moccasin II PLUS + Canopy + Gramoxone Brands, Glyphosate Brands**

Use only where soils have 0.5 - 5% organic matter. On coarse soils (except sand), apply 1.0 pt/A of **Moccasin II PLUS**, on medium soils, apply 1.33 pts/A of **Moccasin II PLUS**, and on fine soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS**. Refer to the Canopy label for appropriate rate, according to geographical location, soil and organic matter classification, pH limitations, and all other use directions.

**RESTRICTION**

- Do not apply to sand, or to any soil with less than 0.5% organic matter, or to any soil with pH greater than 7.0, except as noted on the Canopy label.

**Moccasin II PLUS + Pursuit + Gramoxone Brands, Glyphosate Brands**

On coarse soils, apply 1.0 pt/A of **Moccasin II PLUS** + 0.25 pt/A of Pursuit. On medium soils, apply 1.33 pts/A of **Moccasin II PLUS** + 0.25 pt/A of Pursuit. On fine soils, apply 1.67 pts/A of **Moccasin II PLUS** + 0.25 pt/A Pursuit.



## Postemergence Use on Soybeans

### Moccasin II PLUS Tank Mixtures

#### Tank Mixture with Glyphosate Brands

**Moccasin II PLUS** at 1.0 - 1.33 pts/A may be tank mixed with glyphosate products at labeled rates and applied from emergence up through the third trifoliolate leaf stage of Roundup Ready or glyphosate-tolerant soybeans. **Moccasin II PLUS** alone will not control emerged weeds. Use this treatment only on soybeans designated for use with glyphosate (e.g., Roundup Ready or glyphosate-tolerant soybeans). The glyphosate product must be registered for postemergence use in Roundup Ready or glyphosate-tolerant soybeans.

#### Tank Mixture with Interline or other Glufosinate Products

Use this treatment only on soybeans designated for use with glufosinate (e.g., LibertyLink). **Moccasin II PLUS** at 1.0 - 1.33 pts/A may be tank mixed with glufosinate herbicides (e.g. Interline Herbicide, Liberty Herbicide or Ignite 280 SL Herbicide) at labeled rates and applied from emergence up through the third trifoliolate leaf stage of soybeans. **Moccasin II PLUS** alone will not control emerged weeds.

Follow the tank mix product label for adjuvant suggestions. The use of COC or UAN with **Moccasin II PLUS** may result in temporary crop injury.

#### RESTRICTIONS

- Do not apply more than 1.33 pts/A postemergence.
- Pre-Harvest Interval (PHI): Make postemergence application at least 90 days before harvest.
- Do not graze or feed treated forage or hay from soybeans to livestock following a postemergence application of **Moccasin II PLUS**.

## SUGAR BEETS

### Moccasin II PLUS Alone

#### Postemergence Applications

**Moccasin II PLUS** may be applied postemergence to sugar beets after the sugar beets have reached the first true-leaf stage. However, because **Moccasin II PLUS** is primarily a soil-active herbicide, it must be applied prior to weed emergence in order to provide consistent control of listed weeds. As such, weeds that are emerged with or before the crop, or that are present at the time **Moccasin II PLUS** is applied, must be controlled with another appropriately labeled herbicide. Apply **Moccasin II PLUS** at 1 pt/A on coarse soils, 1.33 pts/A on medium soils, and 1.67 pts/A on fine soils. More than one postemergence application may be applied, but the total must not exceed 2.6 pts/A. Weeds present at the time of application will not be controlled.

#### PRECAUTION

- In coarse soils, **Moccasin II PLUS** applied before emergence of sugar beets (i.e., other than postemergence) may cause injury.

#### RESTRICTIONS

- Do not apply more than 2.6 pts/A postemergence.
- Pre-Harvest Interval (PHI): Do not harvest within 60 days after the last application.

## SUGAR BEETS

### Moccasin II PLUS Tank Mix Combinations

**Moccasin II PLUS** may be tank mixed with Assure® II, Betamix®, Poast®, Progress®, Select®, Stinger®, or Upbeet® and applied to sugar beets. Tank mixtures of these products with **Moccasin II PLUS** will increase the risk of crop injury over that of either product applied alone, as the **Moccasin II PLUS** formulation has some adjuvant properties. The addition of a spray adjuvant such as crop oil concentrates (COC's) or methylated seed oils (MSO's) can further increase the risk of crop injury. Injury risk can be reduced by using the lowest effective rate of the tank mix partner(s) and/or adjuvant and by avoiding applications under adverse growing conditions or high soil or air humidity. Refer to the individual product labels and follow all use restrictions and limitations.

## SUNFLOWERS

### Moccasin II PLUS Alone

#### Preplant Incorporated or Preemergence

Within the rate ranges given below, use the higher rate of **Moccasin II PLUS** if heavy weed infestations are expected. On coarse soils with organic matter less than 3%, apply 1.0 - 1.33 pts/A of **Moccasin II PLUS**; apply 1.33 pts/A if organic matter is 3% or greater. On medium soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS**. On fine soils with organic matter of less than 3%, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS**; apply 1.67 - 2.0 pts/A if organic matter is 3% or greater.

#### RESTRICTIONS

- Do not allow livestock to graze or feed in treated area.
- Do not exceed the maximum label rates for sunflowers for the soil type.

## TOMATOES

### Moccasin II PLUS Alone

#### Transplanted

Apply **Moccasin II PLUS** preplant incorporated or preplant before transplanting. If the latter method is used, keep soil disturbance to a minimum during the transplanting operation. Application may also be post-directed to transplants after the first settling rain or irrigation. When an application is made post-directed, apply in a minimum of 20 gallons of water per acre and minimize contact with tomato plants. **Moccasin II PLUS** will not control emerged weeds. In bedded transplanted tomatoes, apply **Moccasin II PLUS** preplant non-incorporated to the top of the pressed bed as the last step prior to laying plastic. **Moccasin II PLUS** may also be used to treat row-middles in bedded tomatoes, as long as the total amount of **Moccasin II PLUS** does not exceed the maximum allowed per crop.

#### Seeded

**Moccasin II PLUS** 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 II PLUS** will not control emerged weeds.

#### Tomato Use Rates

On coarse soils, apply 1.0 - 1.33 pts/A of **Moccasin II PLUS** if organic matter is less than 3% or 1.33 pts/A if organic matter is 3% or greater. On medium soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS**. On fine soils, apply 1.33 - 1.67 pts/A of **Moccasin II PLUS** if organic matter is less than 3% or 1.67 - 2.0 pts/A if organic matter is 3% or greater.

## PRECAUTIONS

- Do not apply to varieties or cultivars with unknown tolerance to **Moccasin II PLUS**.
- **Moccasin II PLUS** may damage transplants that have been weakened by any cause. To prevent damage, plant only healthy transplants. Do not plant when wet, cool, or unfavorable growing conditions exist.
- In transplanted tomatoes, if **Moccasin II PLUS** is applied preplant 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 II PLUS** immediately following application, b) applying the **Moccasin II PLUS** seven or more days before transplanting (but only after the beds have been formed), c) minimizing the application of **Moccasin II PLUS** onto the plastic of the bed, or d) any combination of the above.
- Applications may be made using ground equipment, in concentrated spray volumes.
- Applications may be made as a foliar broadcast spray to the soil within 1 week of transplanting and again at blooming/fruiting to the row middles as a banded/directed application 38 - 77 days after the first treatment.

## RESTRICTIONS

- Do not exceed the maximum label rate for the soil texture per year.
- Apply only by ground application.
- 90-Day PHI - If the single application rate of **Moccasin II PLUS** is greater than 1.33 pts/A (up to 2.0 pts/A), do not harvest tomatoes within 90 days of application.
- 30-Day PHI - If the application of **Moccasin II PLUS** does not exceed 1.33 pts/A, do not harvest tomatoes within 30 days of application.

When applying at 1.33 pts/A with a 30-day PHI, the following restrictions apply:

- Do not exceed two applications per growing season.
- The use of adjuvants is prohibited.

## STORAGE AND DISPOSAL

### Pesticide Storage

This product may be stored at temperatures down to 30 degrees below 0°F.

### Pesticide Disposal

Do not contaminate water, food, or feed by storage or 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 [equal to or less than 5 gallons]

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. 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 and 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, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### Container Handling [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.

### Container Handling [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.

**IMPORTANT INFORMATION  
READ BEFORE USING PRODUCT**

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