

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

June 28, 2017

Kt Woodall Agent Prime Source, LLC c/o Wagner Regulatory Associates, Inc. P.O. Box 640 Hockessin, DE 19707

Subject: Label Amendment – Revise directions for use and delete ABN Product Name: Meso 4 SC Select EPA Registration Number: 89442-33 Application Date: March 27, 2017 Decision Number: 527843

Dear Kt Woodall:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, please contact BeWanda Alexander by phone at (703)347-0313, or via email at alexander.bewanda@epa.gov.

Sincerely,

Info

Erik Kraft, Product Manager 24 Fungicide and Herbicide Branch Registration Division (7505P) Office of Pesticide Programs

Enclosure

GROUP 27 HERBICIDE

# Meso 4 SC Select [ABN: Meso 4SC Prime]

Sublabel A (Pages 1-20) ABN: Meso 4SC Prime: Controls annual broadleaf weeds in Soybean, Corn (field, seed, yellow pop, sweet), and other listed crops Sublabel B. (Pages 21, 27) Meso 4. SC Select: Provides coloctive and residual control of woods in Ornamental

Sublabel B (Pages 21-27) Meso 4 SC Select: Provides selective and residual control of weeds in Ornamental Turfgrasses

Active Ingredient:	By Weight
Mesotrione: 2-[4-(methylsulfonyl)-2-nitrobenzoyl]-1,3-cyclohexanedione	40.0%
Other Ingredients:	<u>60.0%</u>
TOTAL:	100.0%
Contains 4 lbs. Mesotrione per gallon.	

## KEEP OUT OF REACH OF CHILDREN CAUTION

	FIRST AID
	Take off contaminated clothing.
IF ON SKIN	<ul> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> </ul>
	Call a poison control center or doctor for treatment advice.
Have the produ	uct container or label with you when calling a poison control center or doctor, or going for
treatment.	

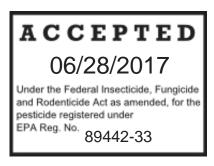
#### HOT LINE NUMBER

For 24-Hour Medical Emergency Assistance (Human or Animal) call: **1-800-222-1222**. For Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) call CHEMTREC: **1-800-424-9300**.

[See inside label booklet for additional Precautionary Statements and complete Directions for Use.] [See inside booklet for additional Precautionary Statements, complete Directions For Use, & Storage And Disposal.]

EPA Reg. No.: 89442-33 EPA Est. No.: \_\_\_\_\_

Net Contents:



#### MANUFACTURED (For)(By):

Prime Source, LLC P.O. Box 250 10025 Hwy. 264 Alternate Middlesex, NC 27557

## **PRECAUTIONARY STATEMENTS**

## Hazards to Humans and Domestic Animals

#### CAUTION

Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes, or clothing.

#### **Personal Protection Equipment (PPE)**

### Applicators and Other Handlers much wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves (barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, poly-ethylene, polyvinyl chloride (PVC) ≥ 14 mils, and viton ≥ 14 mils)

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.

#### USER SAFETY RECOMMENDATIONS

#### Users should:

- Wash hands thoroughly with soap and water 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 and wash contaminated clothing before reuse.
- 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.

#### **Engineering Control Statements**

When handlers use closed systems or enclosed cabs 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.

#### **Environmental Hazards**

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

#### Surface Water Advisory

This product may contaminate water through drift or spray in wind. This product has a high potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

#### **Physical and Chemical Hazards**

Do not use or store near heat or open flame. Do not use with or store near any oxidizing or reducing agents.

## **DIRECTIONS FOR USE**

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

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

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and 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 12 hours.

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
- shoes plus socks
- chemical-resistant gloves (barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, poly-ethylene, polyvinyl chloride (PVC) ≥14 mils, and viton ≥14 mils)

#### **PRODUCT INFORMATION**

Meso 4 SC Select [Alternate Brand Name] is a systemic pre-emergence and post-emergence herbicide for selective contact and residual control of broadleaf weeds in labeled crops. In pre-emergence applications, weeds take up the product through the soil during weed emergence. Dry weather conditions reduce pre-emergent effectiveness of Meso 4 SC Select [Alternate Brand Name]. At least ¼-inch of rainfall must occur within 7-10 days of application; rotary hoeing activates Meso 4 SC Select. In post- emergence applications, vulnerable weeds take up the product through treated foliage and stop growing soon after application. It can take up to two weeks for weeds to die. Meso 4 SC Select [Alternate Brand Name] is absorbed by soil and/or through foliage of emerged weeds.

**Meso 4 SC Select** [Alternate Brand Name] does not control most species of grass weeds. Meso 4 SC Select [Alternate Brand Name] can be tank-mixed with other herbicides registered to control grass weeds (see tank-mix information in this label for additional information). 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. Meso 4 SC Select [Alternate Brand Name] can be used in combination with a burndown herbicide prior to planting to provide weed control in field corn, seed corn, yellow popcorn, and sweet corn.

#### RESISTANCE MANAGEMENT FOR MESO 4 SC SELECT [ALTERNATE BRAND NAME] (GROUP 27 HERBICIDE)

The efficacy of **Meso 4 SC Select** [Alternate Brand Name] is not affected by the presence of biotype weed species that are resistant to Protoporphyrinogen Oxidase (PPO), 4-Hydroxyphenylpyruvate Dioxygenase (HPPD) or Acetolactate Synthase (ALS) inhibiting herbicides or to Triazine or Glyphosate herbicides.

To reduce the risk of weeds developing resistance to mesotrione in corn, always use full specified label rates. When applying **Meso 4 SC Select** [Alternate Brand Name] post-emergence after a mesotrione-containing pre-emergence herbicide, add atrazine as a tank mix partner. Do not apply more than 0.24 lb. of mesotrione active ingredient per acre of corn per year (equivalent to 7.7 fl. oz. per acre per year of Meso 4 SC Select [Alternate Brand Name]). If additional herbicide is needed, use an herbicide product other than a HPPD inhibitor (Group 27 Herbicide). Use specified label rates of Meso 4 SC Select [Alternate Brand Name] to prevent selection for, or population shifts toward, marginally tolerant weed species and/or species biotypes.

#### INTEGRATED WEED PEST MANAGEMENT

Integrate **Meso 4 SC Select** [Alternate Brand Name] into an overall weed pest management strategy whenever the use of an herbicide is required. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding) must be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

#### USE PRECAUTIONS - MESO 4 SC SELECT [Alternate Brand Name]

Severe corn injury and/or yield loss can occur:

- From post-emergent application of **Meso 4 SC Select** [Alternate Brand Name] to corn treated with Counter<sup>®</sup> or Lorsban<sup>®</sup>.
- If foliar post-emergent applications of **Meso 4 SC Select** [Alternate Brand Name] are made to corn in a tank mix with any organophosate or carbamate insecticide.
- If an organophosphate or carbamate insecticide is applied foliar post-emergence within 7 days before or 7 days after Meso 4 SC Select [Alternate Brand Name] application.
- When weeds are stressed due to drought, heat, lack of fertility, flooding, or prolonged cool temperatures control can be reduced or delayed since the weeds are not actively growing. Weed escapes or regrowth may occur when application is made under prolonged stress conditions. Optimum weed control will be obtained if an application of **Meso 4 SC Select [Alternate Brand Name]** is made following label directions when weeds are actively growing.
- Meso 4 SC Select [Alternate Brand Name] may be applied with pyrethroid type insecticides (e.g., Lambda cyhalothrin).

#### **USE RESTRICTIONS - MESO 4 SC SELECT**

- **DO NOT** apply this product to white popcorn or ornamental (Indian) corn.
- **DO NOT** cultivate corn within 7 days before or after application of this product as weed control may be reduced.
- **DO NOT** apply this product through any type of irrigation system unless specified under the specific crop section of the label.
- **DO NOT** apply this product with suspension fertilizers as the carrier.
- **DO NOT** apply this product post-emergence in a tank mix with emulsifiable concentrate grass herbicides, unless specifically directed under one of the tank mix sections of this label, or crop injury can occur.
- **DO NOT** make aerial applications of this product unless specified in the specific crop directions of this label.

#### SPRAY DRIFT RESTRICTIONS

- Avoid drift to adjacent crops and non-target areas.
- For aerial applications use only nozzles that produce coarse to very coarse droplets. **DO NOT** use nozzles that produce fine to medium size droplets.
- **DO NOT** apply when weather conditions can cause drift to non-target areas to avoid injury to adjacent crops and vegetation.
- **DO NOT** apply when wind speed is greater than 10 mph or during a temperature inversion.
- Use of larger droplet sizes will help avoid spray drift.

#### AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions.

#### **Importance of 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 MAY NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS! See the Aerial Application section for specific instructions regarding droplet size.

#### **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** Use the lower spray pressures specified for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-RATED NOZZLE INSTEAD OF INCREASING PRESSURE.
- Number of Nozzles Use the minimum number of nozzles that provide uniform coverage.

#### **Sensitive Areas**

Apply **Meso 4 SC Select** [Alternate Brand Name] 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 sensitive areas).

#### SPRAY DRIFT PRECAUTIONS FOR AERIAL APPLICATION TO CORN & SUGARCANE ONLY

The distance of the outer-most nozzles on the boom must not exceed <sup>3</sup>/<sub>4</sub> the length of the wingspan or rotor.

Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they must be observed.

Spray must be released at the lowest height consistent with effective weed control and flight safety.

For best results with aerial application of this product, each type of airplane and helicopter must be quantifiably pattern tested initially and every year thereafter.

RESTRICTIONS: FOR AERIAL APPLICATION USE ONLY NOZZLES PRODUCING COARSE TO VERY COARSE DROPLETS. DO NOT USE NOZZLES PRODUCING FINE OR MEDIUM SIZE DROPLETS. Do not make applications at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Do not make applications during a temperature inversion, because drift potential is high.

For some use patterns, reducing the effective boom length to less than  $\frac{3}{4}$  of the wingspan or rotor length may further reduce drift without reducing swath width.

Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

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

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application must be avoided below 2 mph due to variable wind direction and high inversion potential.

**NOTE:** Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect drift.

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

Temperature inversions 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 connected cloud (under low wind conditions) indicates an inversion, while smoke that moves upwards and rapidly dissipates indicates good vertical air mixing.

Apply **Meso 4 SC Select** [Alternate Brand Name] 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).

#### AERIAL APPLICATION INSTRUCTIONS FOR CORN AND SUGARCANE

Aerial application of Meso 4 SC Select [Alternate Brand Name] is permitted only on corn and sugarcane. Make aerial applications with nozzles that produce coarse to very coarse droplets. DO NOT use nozzles producing fine to medium size droplets.

#### CORN

Meso 4 SC Select [Alternate Brand Name] is approved for aerial application for pre-emergence and post-emergence control in corn in the states of: Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Nebraska, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming.

#### SUGARCANE

**Meso 4 SC Select** [Alternate Brand Name] is approved for aerial application for pre-emergence and post-emergence control in sugarcane in the states of: Florida, Louisiana, and Texas. Make aerial applications in a minimum of 2 gallons water per acre.

#### PRE-EMERGENCE GROUND APPLICATION INSTRUCTIONS

Apply Meso 4 SC Select [Alternate Brand Name] pre-emergence with a carrier volume of 10-60 gals./A.

Space spray nozzles of the same size and type uniformly to provide accurate and uniform coverage. Use medium to coarse droplet size nozzles to ensure coverage and avoid drift. Apply in a spray volume of 10-60 gals./A with water or liquid fertilizer (NOT suspension fertilizer) as the carrier. Use a pump that will maintain pump pressure of 35-40 psi at the nozzles and provide proper agitation within the tank to keep the product dispersed. Lower pressures can be used with extended range or drift reduction nozzles.

Maintain constant agitation until spraying is complete, even if stopping for brief periods of time. If agitation is stopped for longer than 5 minutes, re-suspend the spray solution by running on full agitation prior to spraying.

#### POST-EMERGENCE GROUND APPLICATION INSTRUCTIONS

Space spray nozzles of the same size and type uniformly to provide accurate and uniform coverage. Use medium to coarse droplet size nozzles to ensure coverage and avoid drift. Complete weed coverage is essential for optimum weed control. Boom height for broadcast over-the-top applications must be based on the height of the crop, at least 15 inches above the crop canopy.

Apply in a spray volume of 10-30 gals./A with water as the carrier. Use a pump that will maintain pump pressure of 35-40 psi at the nozzles and provide proper agitation within the tank to keep the product dispersed. Lower pressures can be used with extended range or drift reduction nozzles. If weed foliage is dense, use a minimum of 20 gals.

Apply with flat fan nozzles 80°-100° for optimum post-emergent coverage. Do not use flood jet nozzles or controlled droplet application equipment for post-emergence applications.

Angle nozzles forward 45° to enhance product penetration and provide better coverage. In-line strainers and nozzle screens must be a minimum of 50-mesh or coarser.

Maintain constant agitation until spraying is complete, even if stopping for brief periods of time. If agitation is stopped for longer than 5 minutes, resuspend the spray solution by running on full agitation prior to spraying.

#### USE DIRECTIONS WITH SPRAY ADDITIVES

#### Post-Emergence Adjuvants

**DO NOT** use methylated seed oil (MSO) or MSO adjuvant blends for post-emergence applications of **Meso 4 SC Select** [Alternate Brand Name] or severe crop injury can occur. **DO NOT** use MSO adjuvants unless it is specifically permitted in the **Tank Mixtures for Corn** section of this label, or if permitted by a state-specific supplemental label.

In addition to COC, add 2.5% (v/v) a spray grade UAN (e.g., 28-0-0) to the spray solution, or 8.5 lbs./100 gallons of ammonium sulfate (AMS), except if precluded elsewhere on this label or a state-specific supplemental label.

#### Adjuvant Use Post-Emergence to Sweet and Yellow Corn

**DO NOT** use UAN or AMS on sweet and yellow corn as severe crop injury can occur.

Use a NIS instead of a COC to reduce the likelihood of crop injury. COCs will maximize weed control under dry growing conditions, but will significantly injure crops under lush growing conditions. To optimize weed control, add atrazine wherever rotational or local atrazine restrictions allow.

#### **Pre-Emergence Adjuvant Use**

Any adjuvant approved for use on agriculture is permitted when making **Meso 4 SC Select** [Alternate Brand Name] preplant or pre- emergence applications. MSO adjuvants perform better than COC and NIS adjuvants under pre-plant/preemergence conditions. UAN and AMS adjuvants will provide better weed control than not using any adjuvant. If **Meso 4 SC Select** [Alternate Brand Name] is being tank-mixed with another registered herbicide, refer to the tank mix partner label for adjuvant precautions and restrictions.

#### SPRAY EQUIPMENT CLEANING

It is important to follow the procedures below for cleaning equipment before spraying a crop other than corn. Mix only as much spray solution as is needed.

- 1) Flush tank, hoses, boom, and nozzles with clean water.
- 2) Prepare cleaning solution of 1 gal. of household ammonia per 25 gals. of water. Commercial spray tank cleaners can be used in lieu of ammonia/water solution.
- 3) Using a pressure washer, clean the inside of the spray tank with the cleaning solution. Wash ALL parts of the tank, including the inside top surface. If a pressure washer is not available, fill the sprayer with the cleaning solution to

ensure contact of the cleaning solution with all internal surfaces of the tank and plumbing. Start agitation in the spray and recirculate the cleaning solution for a minimum of 15 minutes. All visible deposits of spray solution must be removed from the spray tank before making any other applications.

- 4) Flush hoses, spray lines, and nozzles with cleaning solution for a minimum of 1 minute.
- 5) Dispose of rinsate from steps 1-3 in an appropriate manner.
- 6) Repeat steps 2-5.
- 7) Remove nozzles, screens, and strainers and clean separately in the ammonia solution after completing the previous steps.
- 8) Rinse the complete spray system with clean water.

#### **MIXING INSTRUCTIONS**

See the **Crop Use Directions** sections of the label for specific tank mix instructions.

Always refer to labels of other pesticide products for mixing directions and precautions which may differ from those outlined here. Use in accordance with the most restrictive label limitations and precautions.

#### MIXING RESTRICTIONS

- **DO NOT** exceed any dosage rates specified on labels.
- **DO NOT** mix this product with any product containing a label prohibition against such mixing.
- **DO NOT** tank mix **Meso 4 SC Select** [Alternate Brand Name] with any other insecticide, fungicide, fertilizer, or adjuvant not specified on this label without first testing compatibility, as poor mixing can occur. Test compatibility on a small scale (such as a jar test) before actual tank mixing.

#### MIXING PROCEDURE

- Use sprayers in good operating condition with good agitation. Ensure that the sprayer is cleaned according to the label instructions of the product label used prior to Meso 4 SC Select [Alternate Brand Name]. For postemergence applications, use clean water only for the spray solution. Ensure that all in-line strainers and nozzle screens in the sprayer are 50-mesh or coarser. DO NOT use screens finer than 50-mesh.
- 2. Use liquid fertilizer (NOT suspension fertilizer) as the carrier for pre-emergence applications.
- 3. Start filling spray tank or pre-mix tank with clean water and begin agitation. Maintain constant agitation.
- 4. When sprayer or pre-mix is half full of water, add AMS, maintaining agitation until dispersed.
- Add Meso 4 SC Select [Alternate Brand Name] slowly and agitate until completely dissolved. Wait at least 1 minute after the last of the Meso 4 SC Select [Alternate Brand Name] has been added to allow for complete dispersion. If using cold water, a longer agitation period may be required to ensure adequate dispersing.
- 6. If tank mixing, add the tank mix product.
- 7. Add the adjuvant and UAN, if needed, and continue to fill tank to desired level with water.

#### MESO 4 SC SELECT [ALTERNATE BRAND NAME] WEED CONTROL TABLES

Meso 4 SC Select [Alternate Brand Name] applied as directed in this label will control or partially control the weeds listed in Tables 1 and 2.

Partial control means either erratic control (good to poor control) or control that is below what is generally regarded as acceptable control for commercial weed control.

For best post-emergence results, apply Meso 4 SC Select [Alternate Brand Name] to actively growing weeds.

Dry weather following pre-emergence applications may reduce efficacy of residual weed control. If irrigation is available, apply ½-1-inch water after pre-emergence application. If irrigation is not available, make a uniform shallow cultivation as soon as weeds emerge.

**Meso 4 SC Select** [Alternate Brand Name] applied alone or in a tank-mix with atrazine will not provide consistent or adequate control of weeds that are resistant to post-emergence HPPD inhibiting herbicides.

Refer to the crop sections of this label for specific use directions and application rates.

#### Table 1. Weeds Controlled with Post-Emergence Applications of Meso 4 SC Select [Alternate Brand]

<u>Name</u> ]			
Common Name	Scientific Name	Meso 4SC Select [Alternate Brand Name] 3 Fl. Oz./A Applied Alone	Meso 4SC Select <sup>1</sup> [Alternate Brand Name] 2.5-3.0 Fl. Oz./A + Atrazine
			eeds <5" Tall2
Amaranth, palmer	Amaranthus palmeri	PC+	C+
Amaranth, powell	Amaranthus powellii	С	С
Amaranth, spiny	Amaranthus spinosus	С	С
Atriplex	Chenopodium orach	С	С
Broadleaf signalgrass	Urochloa platyphylla	C+	C+
Buckwheat, wild	Polygonum convolvulus	PC	PC
Buffalobur	Solanum rostratum	С	С
Burcucumber	Sicyos angulatus	PC	C+
Carpetweed	Mollugo verticillata	С	С
Carrot, wild	Daucus carota	PC	С

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Chickweed, common	Stellaria media	С	С
Cocklebur, common	Xanthum strumarium	С	С
Crabgrass, large	Digitaria sanguinalis	C+	C+
Dandelion	Taraxacum officinale	NC	PC
Dock, curly	Rumex crispus	PC	PC
Galinsoga	Galinsoga parviflora	С	С
Hemp	Cannabis sativa	С	С
Horsenettle	Solanum carolinense	PC	С
Jimsonweed	Datura stramonium	С	С
Horseweed (marestail)	Conyza canadensis	PC	С
Knotweed, prostrate	Polygonum aviculare	PC	PC
Kochia	Kochia scoparia	PC+	C+
Lambsquarters, common	Chenopodium album	С	С
Mallow, Venice	Hibiscus trionum	NC	С
Morningglory, entireleaf	Ipomoea hederacea	PC	С
Morningglory, ivyleaf	Ipomoea hederacea	PC	С
Morningglory, pitted	Ipomoea lacunosa	РС	С
Mustard, wild	Brassica kaber	С	С
Nightshade, black	Solanum nigrum	С	С
Nightshade, Eastern black	Solanum ptychanthum	С	С
Nightshade, hairy	Solanum sarrachoides	С	С
Nutsedge, yellow	Cyperus esculentus	PC	PC
Pigweed, redroot	Amaranthus retroflexus	С	С
Pigweed, smooth	Amaranthus hybridus	С	С
Pigweed, tumble	Amaranthus albus	С	С
Pokeweed, common	Phytolacca americana	PC	PC
Potatoes, volunteer	Solanum spp.	С	С
Pusley, Florida	Richardia scabra	C+	C+
Ragweed, common	Ambrosia artemisiifolia	PC	С
Ragweed, giant	Ambrosia trifida	C+	С
Sesbania, hemp	Sesbania exaltata	С	С
Sida, prickly (teaweed)	Sida spinosa	NC	C+
Smartweed, ladysthumb	Polygonum persicaria	C+	С
Smartweed, pale	Polygonum lapathifolium	C+	С
Smartweed, Pennsylvania	Polygonum pensylvanicum	C+	С
Sunflower, common	Helianthus annuus	С	С
Thistle, Canada	Circium arvense	NC	PC
Velvetleaf	Abutilon theophrasti	С	С
Waterhemp, common	Amaranthus rudis	C+	С
Waterhemp, tall	Amaranthus tuberculatus	C+	C

<sup>1</sup>Meso 4 SC Select [Alternate Brand Name] tank mixture with atrazine is approved only for use on corn and sugarcane.

<sup>2</sup>Weeds can be controlled at larger than listed sizes; however, to protect crop yield, manage weed resistance, and provide effective control, treat weeds before they reach 5" tall.

+Apply before weeds exceed 3" tall.

C = Control NC = Not Controlled

PC = Partial Control

Common Name	Scientific Name	Meso 4 SC Select <u>Alternate</u> <u>Brand Name</u> ] Applied Alone	Meso 4 SC Select [Alternate Brand Name] + Atrazine1
Amaranth, palmer	Amaranthus palmeri	С	С
Amaranth, powell	Amaranthus powellii	С	С
Amaranth, spiny	Amaranthus spinosus	С	С
Broadleaf signalgrass	Urochloa platyphylla	PC	PC
Buffalobur	Solanum rostratum	С	С
Carpetweed	Mollugo verticillata	С	С
Chickweed, common	Stellaria media	С	С
Cocklebur, common	Xanthum strumarium	PC	С
Crabgrass, large	Digitaria sanguinalis	PC	PC
Galinsoga	Galinsoga parviflora	С	С
Jimsonweed	Datura stramonium	С	С
Kochia	Kochia scoparia	PC	С
Lambsquarters, common	Chenopodium album	С	С
Morningglory, entireleaf	Ipomoea hederacea	PC	С
Morningglory, ivyleaf	Ipomoea hederacea	PC	C
Morningglory, pitted	Ipomoea lacunosa	PC	С
Nightshade, Eastern black	Solanum ptychanthum	C	C

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Nightshade, hairy	Solanum sarrachoides	С	C
Pigweed, redroot	Amaranthus retroflexus	С	С
Pigweed, smooth	Amaranthus hybridus	С	С
Pigweed, tumble	Amaranthus albus	С	С
Ragweed, common	Ambrosia artemisiifolia	С	С
Ragweed, giant	Ambrosia trifida	PC	С
Smartweed, ladysthumb	Polygonum persicaria	С	С
Smartweed, pale	Polygonum lapathifolium	С	С
Smartweed, Pennsylvania	Polygonum pensylvanicum	С	С
Sunflower, common	Helianthus annuus	PC	С
Velvetleaf	Abutilon theophrasti	С	С
Waterhemp, common	Amaranthus rudis	С	С
Waterhemp, tall	Amaranthus tuberculatus	С	С

<sup>1</sup>Meso 4 SC Select [Alternate Brand Name] tank mixture with atrazine is approved only for use on corn, grain sorghum and sugarcane. Refer to the crop sections on this label for specific use directions.

C = Control PC = Partial Control

#### **ROTATIONAL CROP INTERVALS**

If **Meso 4 SC Select** [Alternate Brand Name] is applied alone, follow the crop rotation intervals listed below in Table 3. If **Meso 4 SC Select** [Alternate Brand Name] is tank-mixed with other products, then follow the most restrictive product's crop rotation interval.

# Table 3. Time Interval between Meso 4 SC Select [Alternate Brand Name] Application and Replanting/Planting of Rotational Crop

	, pprication and replanting, rianting of rotational crop
<b>Replant/Rotational Interval</b>	Сгор
Anytime	Asparagus, Corn (all types), Cranberry, Flax, Kentucky bluegrass grown for seed, Pearl Millet, Oats, Rhubarb, Ryegrass (perennial and annual) grown for seed, Sorghum (grain and sweet), Sugarcane, Tall fescue grown for seed
4 Months	Small grain cereals (wheat, barley, rye)
10 Months	Alfalfa, Blueberry, Canola, Cotton, Currant, Lingonberry, Okra, Peanuts, Peas*, Potato, Rice, Snap Beans*, Soybeans, Sunflowers, Tobacco
18 Months	Cucurbits, Dry beans, Red Clover, Sugar Beets, All other crops

\*Peas and Snap Beans: Plant these rotation crops at a 10 month interval ONLY if the criteria listed below have been met. If all criteria have NOT been met, plant peas and snap beans a minimum of 18 months following Meso 4 SC Select [Alternate Brand Name] application.

- A minimum of 20 inches of rainfall plus irrigation has occurred between application and planting of the rotational crop.
- Soil pH is greater than 6.0.
- 3 fl. oz./A or less of this product has been applied no later than June 30th the year preceding rotational crop planting.
- No other HPPD herbicides (e.g., Callisto<sup>®</sup>, Halex<sup>®</sup> GT, Lexar<sup>®</sup> EZ, Lumax<sup>®</sup> EZ, Zemax<sup>®</sup>, Armezon<sup>™</sup>, Balance<sup>®</sup> Flexx, Capreno<sup>®</sup>, Corvus<sup>®</sup>, Impact<sup>®</sup>, or Laudis<sup>®</sup>) were applied the year prior to planting peas and snap beans.
- Do not plant peas or snap beans on sand, sandy loam, or loamy sand soils in Minnesota or Wisconsin.

#### **CROP USE DIRECTIONS – CORN**

Apply **Meso 4 SC Select** [Alternate Brand Name] by ground for pre-emergence or post-emergence weed control in field corn, seed corn, yellow popcorn, and sweet corn. Apply **Meso 4 SC Select** [Alternate Brand Name] to corn up to 30" tall or up to the 8-leaf stage of corn growth to control broadleaf and grass weeds listed in Tables 1 and 2.

Aerial applications of **Meso 4 SC Select** [Alternate Brand Name] can be made pre-emergence or post-emergence in the following states: Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming.

See seed company instructions for use on field corn inbred lines. Special adjuvant restrictions must be followed for postemergence applications of **Meso 4 SC Select** [Alternate Brand Name] in yellow popcorn or sweet corn (see the Spray Additives section of this label).

Post-emergence application of Meso 4 SC Select [Alternate Brand Name] to yellow popcorn and sweet corn hybrids may

cause crop bleaching. Bleach is transitory and will not affect final yield or quality. Herbicide sensitivity, however, can vary widely in yellow popcorn and sweet corn, and all hybrids of these have not been tested. Contact your local popcorn/sweet corn company, Fieldman, or University Specialist to learn about hybrid instructions before making a post-emergence application of **Meso 4 SC Select** [Alternate Brand Name] to yellow popcorn or sweet corn.

Temporary transient bleaching may occur in field corn treated with **Meso 4 SC Select** [Alternate Brand Name] postemergence under extreme weather conditions or when the crop is under stress. Field corn will quickly outgrow this condition and develop normally.

#### **Corn Restrictions:**

- Do not apply more than 7.7 fl. oz. (0.24 lb. mesotrione AI) of Meso 4 SC Select [Alternate Brand Name] per year.
- Do not make more than 2 applications per year.
- Do not exceed 3.0 fl. oz. (0.094 lb. AI/A) in a single post-emergence application.
- Do not make a second application of **Meso 4 SC Select** [Alternate Brand Name] within 14 days of the first application.
- Do not feed or harvest forage, grain, or stover within 45 days after application.
- Do not apply **Meso 4 SC Select** [Alternate Brand Name] to white popcorn or ornamental (Indian) corn.
- Do not include nitrogen based adjuvants (UAN or AMS) when making post-emergence applications of Meso 4 SC Select [Alternate Brand Name] to yellow popcorn or sweet corn.

#### Meso 4 SC Select [Alternate Brand Name] Used Alone – Post-Emergence

Apply 3.0 fl. oz./A per application. Always add an appropriate adjuvant to the spray tank (see the **Spray Additives** section of this label).

Apply to actively growing weeds. See Table 1 for a complete list of weeds controlled. Susceptible weeds that emerge postapplication may be controlled after the herbicide is absorbed into the soil. **Meso 4 SC Select** [Alternate Brand Name] will not control most grass weeds.

Two post-emergence applications of **Meso 4 SC Select** [Alternate Brand Name] may be made under the following restrictions:

- Only one post-emergence application may be made if **Meso 4 SC Select** [Alternate Brand Name] has been applied pre-emergence.
- Do not exceed a total of 7.7 fl. oz./A (0.24 lb. Al/A) per year.
- **Do not** make a second application within 14 days of the first application.
- Applications made at rates lower than 3.0 fl. oz./A. (0.094 lb. AI/A) post-emergence may not provide adequate weed control and may result in reduced residual control.
- Do not exceed a total of 6.0 fl. oz./A (0.19 lb. AI/A) for the two post-emergence applications.
- If a post-emergence application of **Meso 4 SC Select** [Alternate Brand Name] was made to ground that received pre-emergence treatment of another mesotrione-containing herbicide, atrazine must be tank mixed with **Meso 4** SC Select [Alternate Brand Name]
- If mixing Meso 4 SC Select [Alternate Brand Name] with atrazine, do not apply to corn taller than 12".
- Treat corn up to 30" tall or up to the 8-leaf stage of growth.
- **Do not** harvest, forage, or stover within 45 days post-application.

#### Meso 4 SC Select [Alternate Brand Name] Used Alone – Pre-Emergence

Apply 6.0-7.7 fl. oz./A (0.188-0.24 lb. AI/A) by ground sprayer in 10-30 gals. of water per acre to control broadleaf weeds (up to 80 gals. if applied with liquid fertilizer). See Table 2 for a complete list of weeds controlled. **Meso 4 SC Select** [Alternate Brand Name] can be tank mixed with other approved pre-emergence grass herbicides to control grasses. Refer to the tank mix section for a list of tank-mix partners.

#### Meso 4 SC Select [Alternate Brand Name] Tank Mixtures for Corn

Apply **Meso 4 SC Select** [Alternate Brand Name] in tank mix with other registered herbicides to improve spectrum of weed control in burndown, pre-emergence, or post-emergence applications. These tank mixtures can also be used to include a different mode of action herbicide to control and manage the development of resistant weed biotypes.

#### Burndown Tank Mixtures in Corn

Apply **Meso 4 SC Select** [Alternate Brand Name] in tank mixture with other registered herbicides for burndown and residual weed control.

Apply 3.0 fl. oz./A **Meso 4 SC Select** [Alternate Brand Name] with Sharda Paraquat Concentrate, Shypho 41% SL, and/or DiCash DGA-4 for improved broadleaf weed control with limited residual control before planting corn and before corn emergence. For better residual control, apply 6.0-7.7 fl. oz./A **Meso 4 SC Select** [Alternate Brand Name] (see Table 2) with the products listed. Use the adjuvant system specified by the burndown herbicide. Refer to individual product labels for precautionary statements, restrictions, rates, approved uses, and a list of weeds controlled.

#### **Pre-Emergence Tank Mixture in Corn**

Apply 5.3-7.7 fl. oz./A of **Meso 4 SC Select** [Alternate Brand Name] in tank mixture with other registered herbicides (Table 4) for pre-emergence residual weed control. Refer to Table 2 for a list of weeds controlled by **Meso 4 SC Select** [Alternate Brand Name] applied pre-emergence.

#### Table 4. Meso 4 SC Select [Alternate Brand Name] Tank Mixtures for Pre-Emergence Application in Corn

Refer to the individual product labels of the products listed for precautionary statements, restrictions, use rates, approved uses, and a list of weeds controlled.

AAtrexDegree Xtra®Bicep Lite II Magnum®Dual II Magnum®Bicep II Magnum®Expert®Cinch®Fultime®Cinch® ATZGuardsman Max®Cinch® ATZ LiteHarness®Degree®Harness Xtra®

Harness Xtra<sup>®</sup> 5.6L Keystone<sup>®</sup> LA Outlook<sup>®</sup> Prowl<sup>®</sup> Surpass<sup>®</sup> EC TopNotch<sup>®</sup>

#### Post-Emergence Tank Mixtures in Corn

See Table 5 below for a list of tank mixtures that can be applied after corn has emerged.

**Restriction:** Do not apply less than 3.0 fl. oz./A of **Meso 4 SC Select** [Alternate Brand Name] unless specified on this label or on a state-specific supplemental label, as a loss of residual control can occur.

Always add an appropriate adjuvant to the spray tank (See the **Spray Additives** section of this label). Refer to the individual product labels for precautionary statements, restrictions, rates, approved uses, and a list of weeds controlled. Not all of the tank mix pesticides listed are registered for use on field corn, yellow popcorn, or sweet corn.

#### Table 5. Meso 4 SC Select [Alternate Brand Name] Tank Mixtures for Post-Emergence Application to Corn

Refer to the individual product labels for products listed for precautionary statements, restrictions, use rates, approved uses, and a list of weeds controlled.

Tank Mix Partner	Use Directions
AAtrex <sup>®</sup> 4L AAtrex <sup>®</sup> Nine-O <sup>®</sup>	See Table 1 for application rates and list of weeds controlled.
Accent <sup>®</sup> Q	This mixture will provide additional grass control. Refer to the product label for a list of weeds controlled.
Basagran®	This mixture will provide additional broadleaf weed control. Refer to the product label for a list of weeds controlled.
Basis <sup>®</sup> Basis Gold <sup>®</sup>	This mixture will provide additional weed control. Refer to the product label for a list of weeds controlled.
Bicep II Magnum Bicep Lite II Magnum	Do not use nitrogen based adjuvants (UAN or AMS); apply as post-directed spray. Do not use crop oil concentrate (COC); use a non-ionic surfactant (NIS) to avoid crop injury. Control of emerged weeds can be reduced due to the adjuvant effect on weed coverage.
Buctril® Moxy®	This mixture will provide additional broadleaf weed control. Add 2 lbs./gal. Buctril or Moxy at up to 6 fl. oz./A. Add 4 lbs./gal. Buctril at up to 3 fl. oz./A.
Expert	Use only on glyphosate tolerant corn (e.g., Agrisure <sup>®</sup> GT, Roundup Ready <sup>®</sup> ). Crop death will occur if this mixture is applied to a corn hybrid that is not glyphosate tolerant. Do not add urea ammonium nitrate (UAN) or methylated seed oil (MSO) adjuvants to this mixture or crop injury can occur.
Willowood Glufosinate 280SL Ignite <sup>®</sup> 280 SL	Use only on corn designated as LibertyLink <sup>®</sup> or warranted as tolerant to glufosinate. Use of this mixture on corn hybrids not tolerant to glufosinate will result in severe crop injury or death. Do not use crop oil concentrate (COC) as an adjuvant or crop injury can occur.
Lightning®	Use only on corn designated at Clearfield <sup>®</sup> corn or warranted by BASF as tolerant to Lightning <sup>®</sup> . Use of this mixture on corn hybrids not tolerant to Lightning will result in severe crop injury or death.

	Do not use Methylated Seed Oil (MSO) or any MSO blend with this mixture or severe crop injury
	can occur.
Northstar®	This mixture will control additional weeds. See product label for list of weeds controlled.
Peak <sup>®</sup>	This mixture will control additional weeds. See product label for list of weeds controlled.
Spirit®	This mixture will control additional weeds. See product label for list of weeds controlled.
Steadfast®	This mixture will control additional weeds. See product label for list of weeds controlled.
Steadfast <sup>®</sup> ATZ	
Steadfast <sup>®</sup> Q	
Stout®	This mixture will control additional weeds. See product label for list of weeds controlled.
Touchdown®	Use only on glyphosate tolerant corn (e.g., Agrisure GT, Roundup Ready).
Roundup <sup>®</sup> Solo	Use of this mixture on corn hybrids that are not glyphosate tolerant will result in crop death. Add
Glyphosate	spray-grade ammonium sulfate (AMS) at a rate that delivers 8.5-17.0 lbs. of AMS/100 gals. of
Products	water.
	If the glyphosate product calls for an adjuvant in addition to AMS, add 0.25-0.5% v/v (1-2
	quarts/100 gallons) of a non-ionic surfactant (NIS).
	Do not add urea ammonium nitrate (UAN), crop oil concentrate (COC) or methylated seed oil
	(MSO) adjuvants to this tank mixture or crop injury can occur.

#### **CROP USE DIRECTIONS – ASPARAGUS**

**Meso 4 SC Select** [Alternate Brand Name] can be applied broadcast or banded at a rate of 3.0-7.7 fl. oz./A to asparagus as a spring application prior to spear emergence, as a post-harvest application (after final harvest), or both.

Use the 3.0 fl. oz./A rate for post-emergence control or partial control of the emerged weeds listed in Table 1. Use the 6.0-7.7 fl. oz./A rate for pre-emergence control or partial control of the weeds listed in Table 2. For banded applications, the application must be made to account for band width, i.e., to deliver 3.0-7.7 fl. oz. per treated acre. For the best pre-emergence weed control with spring applications, **Meso 4 SC Select** [Alternate Brand Name] must be applied after fern mowing, disking or other tillage operation but prior to asparagus spear emergence.

When making post-harvest applications, the rate applied pre-emergence in the spring must be taken into account so as not to exceed the 7.7 fl. oz./A per year rate limit. Post-harvest applications must be made in a way that minimizes contact with any standing asparagus spears or ferns and maximizes contact with the weeds and/or soil, e.g., by using a directed or semi-directed type application, or crop injury may occur. With post-harvest applications, the use of an adjuvant will increase the risk of crop injury.

If weeds are emerged at the time of the **Meso 4 SC Select** [Alternate Brand Name] application, the addition of a crop oil concentrate (COC) type adjuvant at the rate of 1% v/v or a non-ionic surfactant (NIS) at the rate of 0.25% v/v is needed. In addition to COC or NIS, a spray grade UAN (e.g., 28-0-0) at the rate of 2.5% v/v or ammonium sulfate (AMS) at the rate of 8.5 lbs./100 gallons of spray solution may be added for improved burndown of emerged weeds. If weeds have not yet emerged, no adjuvant is required.

#### **Asparagus Restrictions:**

- Do not apply more than 7.7 fl. oz./A of Meso 4 SC Select [Alternate Brand Name] per year.
- **Do not** make more than two **Meso 4 SC Select** [Alternate Brand Name] applications per year.

## CROP USE DIRECTIONS - BLUEGRASS, RYEGRASS (ANNUAL AND PERENNIAL), AND TALL FESCUE GROWN FOR SEED

**Meso 4 SC Select** [Alternate Brand Name] can be applied to bluegrass, annual ryegrass, perennial ryegrass, or tall fescue which is grown for seed. Meso 4 SC Select [Alternate Brand Name] can be applied as a pre-emergence application to bare soil (new seeding) or as a post- emergence application to an emerged grass crop.

#### **Pre-Emergence Applications**

Apply Meso 4 SC Select [Alternate Brand Name] as a broadcast, surface spray at a rate of 6.0 fl. oz./A to a newly seeded crop. The Meso 4 SC Select [Alternate Brand Name] application must be made prior to crop and weed emergence. Rainfall or irrigation as the newly seeded grass crop emerges from the soil may increase the risk of injury from Meso 4 SC Select [Alternate Brand Name]. Grass crop injury symptoms include temporary bleaching of newly emerged leaves, or in extreme conditions, stunting. For a list of pre-emergence weeds controlled or partially controlled see Table 2. In addition to the weeds listed in Table 2, Meso 4 SC Select [Alternate Brand Name] applied pre-emergence will control mannagrass.

#### **Post-Emergence Application**

Apply Meso 4 SC Select [Alternate Brand Name] as a broadcast post-emergence spray at a rate of 3.0-6.0 fl. oz./A to emerged bluegrass, perennial ryegrass or tall fescue grown for seed. Use the 3.0 fl. oz./A rate for post-emergence control or partial control of the weeds listed in Table 1. In addition to the weeds listed in Table 2, Meso 4 SC Select [Alternate]

Brand Name] applied post-emergence will control mannagrass (up to 3 tillers).

Use the 6.0 fl. oz./A rate for post-emergence weed control plus extended residual weed control (see Table 2). The addition of a crop oil concentrate type adjuvant at 1% v/v or a non-ionic surfactant (NIS) type adjuvant at a rate of 0.25% v/v is recommended. Post-emergence applications of **Meso 4 SC Select** [Alternate Brand Name] may result in temporary bleaching of the grass crop.

In addition to COC or NIS, a spray grade UAN (e.g., 28-0-0) at the rate of 2.5% v/v **or** ammonium sulfate (AMS) at the rate of 8.5 lbs./100 gallons of spray solution may also be added for improved control of emerged weeds. The addition of UAN or AMS will improve consistency of post-emergence weed control but will also increase the risk of grass crop injury, especially at **Meso 4 SC Select** [Alternate Brand Name] rates greater than 3.0 fl. oz./A. If grass crop injury is a concern, do not add UAN or AMS to the spray solution.

Tank mixing other pesticides with **Meso 4 SC Select** [Alternate Brand Name] post-emergence may increase the risk of crop injury. Avoid adding pesticides with emulsifiable concentrate (EC) type formulations to **Meso 4 SC Select** [Alternate Brand Name] for applications made post-emergence to the crop.

**Restrictions:** 

- **Do not** harvest the grass crop for seed or straw within 60 days following the application of **Meso 4 SC Select** [Alternate Brand Name].
- **Do not** graze or feed forage from treated areas within 14 days following harvest of seed or straw and at least 74 days after application of **Meso 4 SC Select** [Alternate Brand Name].
- **Do not** make more than two applications of **Meso 4 SC Select** [Alternate Brand Name] per year.
- Do not apply more than 6 fl. oz./A in a single application and not more than 9 fl. oz./A of Meso 4 SC Select [Alternate Brand Name]
  - per year.
- Applications of **Meso 4 SC Select** [Alternate Brand Name] to grasses grown for seed species not listed on this label may result in severe injury.

#### CROP USE DIRECTIONS – BUSH AND CANEBERRIES (CROP GROUP 13-07A AND 13-07B)

**Note:** Not all cultivars and types of berries that are included within the Environmental Protection Agencies definition of bush and caneberries (Crop Subgroups 13-07A and 13-07B) have been tested and shown to have adequate crop safety to mesotrione. Those that have been tested, and are believed to be reasonably fit, are listed below along with use directions for that crop. If **Meso 4 SC Select** [Alternate Brand Name] is used on bush or caneberries not listed below, severe crop injury may occur.

**Meso 4 SC Select** [Alternate Brand Name] may be applied as a pre-bloom post-directed spray in high bush blueberry, lingonberry, red currant, black currant, black raspberry, red raspberry, and blackberry. For a list of weeds controlled see Tables 1 and 2. Meso 4 SC Select [Alternate Brand Name] may be applied in bush or caneberries at a rate up to 6 fl. oz./A. If a split application weed control program is desired, 3 fl. oz./A followed by 3 fl. oz./A may be used, but no more than two applications per crop per year are allowed and not more than 6 fl. oz./A in total per year. If two applications are made, they must be made no closer than 14 days apart. The use of a crop oil concentrate (COC) type adjuvant at the rate of 1% v/v is needed, but avoid using COC adjuvants that are injurious to bush or caneberry leaves. Do not apply Meso 4 SC Select [Alternate Brand Name] to bush or caneberries after the onset of the bloom stage or illegal residues may occur.

In low bush blueberries, **Meso 4 SC Select** [Alternate Brand Name] may only be applied in the non-bearing year. This application may be a broadcast application. Up to 6 fl. oz./A of **Meso 4 SC Select** [Alternate Brand Name] may be applied in a single application, or 3 fl. oz./A followed by 3 fl. oz./A if used in a split application program. No more than two applications per year are allowed and not more than 6 fl. oz./A in total per year. If two applications are made, they must be made no closer than 14 days apart. The use of a crop oil concentrate (COC) type adjuvant at 1% v/v is needed. Applications of **Meso 4 SC Select** [Alternate Brand Name] during dry weather conditions and/or temperatures above 85° can cause injury to low bush blueberries. Applications of **Meso 4 SC Select** [Alternate Brand Name] or necrosis of leaves and under severe conditions, leaf drop may occur especially on "Sourtop" variety blueberries.

#### **Bush & Caneberry Restrictions:**

- Do not make more than two applications of Meso 4 SC Select [Alternate Brand Name] per year.
- **Do not** apply more than 6.0 fl. oz./A per year.

#### **CROP USE DIRECTIONS – CRANBERRY**

Apply **Meso 4 SC Select** [Alternate Brand Name] to bearing or non-bearing cranberry beds to control or suppress the weeds listed in Tables 1 and 2, and:

- bog St. John's wort (*Hypericum boreale*)
- rushes (Juncus canadensis, J. effuses, J. bufonulus, J. tenuis)
- sedges spp. (*Carex* spp.)
- silverleaf (*Potentilla pacifica*)
- yellow loosestrife (Lysimachia terrestris)

#### **Bearing/Non-Bearing Application Rates:**

- Apply up to 8 fl. oz./A, but do not apply more than 16 fl. oz./A in total per year.
- Make no more than two 8 fl. oz./A applications per crop per year.
- If two applications are made, do not make them closer than 14 days apart. Use 1% v/v of a crop oil concentrate (COC) or 0.25% v/v non-ionic surfactant (NIS).
- Non-bearing Cranberries: Apply after the bud break stage no less than 45 days before flooding in fall or winter.
- Bearing Cranberries: Apply after the bud break stage no less than 45 days before flooding or harvest.

Meso 4 SC Select [Alternate Brand Name] can be applied through irrigation systems (chemigation) including center

pivot or solid set. Cranberry Restrictions:

- Do not make more than two applications of Meso 4 SC Select [Alternate Brand Name] per year.
- **Do not** apply more than 16.0 fl. oz./A per year.
- **Do not** use COC adjuvants that are known to injure cranberry leaves.

#### Sprinkler Irrigation Application – Cranberries Only

Check the irrigation system to ensure uniform application of water to all areas. Thorough coverage of foliage is required for optimal control. Maintain good agitation in the pesticide supply tank prior to and during the entire application process. Inject the specified rate of **Meso 4 SC Select** [Alternate Brand Name] into the irrigation system with a metering device designed to introduce a constant flow and that will distribute the product to target areas in 0.1-0.2 acre-inch of water. Use the least amount of water with this rate range required for proper distribution and coverage.

After application is complete, flush the entire irrigation and injection systems with clean water before stopping the system. If application is being made during a normal irrigation set of a stationary sprinkler, the specified rate of **Meso 4 SC Select** [Alternate Brand Name] for the area covered should be injected into the system only during the end of the irrigation set for sufficient time to provide optimal coverage and distribution.

#### CHEMIGATION USE PRECAUTIONS – SPRINKLER IRRIGATION APPLICATION

Apply this product through center pivot or solid set sprinkler irrigation systems only. Do not apply this product through any other type of irrigation system.

Non-uniform distribution of treated water can cause crop injury, product ineffectiveness, and/or illegal pesticide residues in the crop. Contact State Extension Service Specialists, equipment manufacturers or other experts if you have questions about calibrating equipment.

Do not connect an irrigation system or greenhouse system used for pesticide application to any public water system. A public water system is any system used for provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible personal shall shut the system down and make necessary adjustments should the need arise.

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 back-flow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when pressure decreases to the point where pesticide distribution is adversely affected. Systems must also use a metering pump, including a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and are capable of being fitted with a system interlock.

Any alternatives to the above required safety devices must conform to the list of EPA approved alternative devices.

#### CHEMIGATION USE RESTRICTIONS – SPRINKLER IRRIGATION APPLICATION

- **Do not** apply this product through any other type of irrigation system.
- **Do not** apply when wind speed favors drift beyond the area intended for treatment or non-uniform distribution of treated water.
- **Do not** apply directly to water or areas where surface water is present outside the bog system.
- **Do not** contaminate water when disposing of equipment washwater or rinsate.
- **Do not** apply within 10 feet of surface water outside the bog system.
- **Do not** spray to runoff.

#### **CROP USE DIRECTIONS – FLAX**

**Meso 4 SC Select** [Alternate Brand Name] may be applied pre-emergence in flax, i.e., after planting but before crop emergence, at a rate up to 6 fl. oz./A. For a list of weeds controlled see Tables 1 and 2. Do not apply more than one application, and not more than 6 fl. oz./A, per crop or per year in flax. If weeds are emerged at the time of application, the use of a crop oil concentrate (COC) type adjuvant at the rate of 1% v/v is needed. In addition, a spray grade UAN (e.g., 28-0-0) at the rate of 2.5% (v/v) or AMS at the rate of 8.5 lbs./100 gals. of spray solution may be added to improve the burndown of existing weeds. Applications of Meso 4 SC Select [Alternate Brand Name] to emerged flax can result in severe crop injury.

#### Flax Restrictions:

- Do not make more than one application of Meso 4 SC Select [Alternate Brand Name] per year.
- Do not apply Meso 4 SC Select [Alternate Brand Name] more than 6.0 fl. oz./A per year.

#### **CROP USE DIRECTIONS – OATS**

Meso 4 SC Select [Alternate Brand Name] can be applied pre-emergence or post-emergence (but not both) for weed control in oats.

For pre-emergence control or partial control of the weeds listed in Table 2, apply **Meso 4 SC Select** [Alternate Brand <u>Name</u>] broadcast at a rate of 6.0 fl. oz./A prior to oat emergence. For best pre-emergence weed control, the **Meso 4 SC** Select [Alternate Brand Name] application must be made prior to weed emergence.

For post-emergence (after oat emergence) control or partial control of the weeds listed in Table 1, apply **Meso 4 SC Select** [Alternate Brand Name] at a rate of 3.0 fl. oz./A. For best results, **Meso 4 SC Select** [Alternate Brand Name] must be applied to emerged weeds that are less than 5" tall. Post-emergence applications of **Meso 4 SC Select** [Alternate Brand Name] may result in temporary injury of the oat crop. Injury symptoms may include leaf bleaching, leaf burn and in extreme conditions, stunting.

If emerged weeds are present at the time of the **Meso 4 SC Select** [Alternate Brand Name] application, the addition of a crop oil concentrate (COC) type adjuvant at a rate of 1% v/v or a non-ionic surfactant (NIS) type adjuvant at a rate of 0.25% v/v is recommended. In addition to COC or NIS, a spray grade UAN (e.g., 28-0-0) at the rate of 2.5% v/v or ammonium sulfate (AMS) at the rate of 8.5 lbs./100 gallons of spray solution may be added for improved weed control. If emerged weeds are not present at the time of the **Meso 4 SC Select** [Alternate Brand Name] application, no additives are recommended. If oat injury is a concern, eliminating the use of UAN or AMS will reduce the risk for post-emergence crop injury. Additionally, the use of NIS instead of COC will also reduce the oat injury risk. However, weed control is also reduced if UAN or AMS is eliminated and when switching from COC to NIS.

Tank mixing other pesticides with **Meso 4 SC Select** [Alternate Brand Name] post-emergence may increase the risk of injury. Avoid adding pesticides with emulsifiable concentrate (EC) type formulations to **Meso 4 SC Select** [Alternate Brand Name] for applications made post- emergence to the crop.

#### **Oat Restrictions:**

- Do not graze or feed forage from treated areas within 30 days following an application of Meso 4 SC Select [Alternate Brand Name].
- Do not harvest oats within 50 days following the application of Meso 4 SC Select [Alternate Brand Name].
- **Do not** make more than one application of **Meso 4 SC Select** [Alternate Brand Name] per year.
- **Do not** apply **Meso 4 SC Select** [Alternate Brand Name] pre-emergence (prior to oat emergence) at more than 6.0 fl. oz./A per year.

- Do not apply Meso 4 SC Select [Alternate Brand Name] post-emergence at more than 3.0 fl. oz./A per year.
- If the oat crop treated with Meso 4 SC Select [Alternate Brand Name] is lost or destroyed, oats may be replanted immediately. If Meso 4 SC Select [Alternate Brand Name] was applied to the lost oat crop, no additional Meso 4 SC Select [Alternate Brand Name] can be applied to the replanted oat crop.

#### **CROP USE DIRECTIONS – OKRA**

Meso 4 SC Select [Alternate Brand Name] can be applied as a row-middle or a hooded post-direct treatment (but not both) for weed control in okra.

#### Pre-Emergence Row-Middle Applications

Apply **Meso 4 SC Select** [Alternate Brand Name] at a rate of 6.0 fl. oz./A as a banded application to the row middles prior to weed emergence. For this banded application, leave one foot of untreated area over the okra row or 6" to each side of the planted row. For banded applications, the application must be made to account for band width, i.e., to deliver 6.0 fl. oz. per treated acre.

#### **Post-Emergence Hooded Applications**

Apply Meso 4 SC Select [Alternate Brand Name] at a rate of 3.0 fl. oz./A as a post-emergence directed application using a hooded sprayer for control or partial control of the weeds listed in Table 1. Okra must be at least 3" tall at the time of this application. A non-ionic surfactant (NIS) type adjuvant at a rate of 0.25% v/v must be added to the spray solution. For post-emergence hooded applications, the spray equipment must be set up to minimize the amount of Meso 4 SC Select [Alternate Brand Name] that contacts the okra foliage or crop injury will occur. For best post-emergence results, Meso 4 SC Select [Alternate Brand Name] must be applied to actively growing weeds.

#### **Okra Restrictions:**

- Do not harvest okra within 28 days following the application of Meso 4 SC Select [Alternate Brand Name].
- **Do not** make more than one application of **Meso 4 SC Select** [Alternate Brand Name] per okra crop.
- **Do not** apply **Meso 4 SC Select** [Alternate Brand Name] as a row-middle application at more than 6.0 fl. oz. per treated acre per year.
- **Do not** apply **Meso 4 SC Select** [Alternate Brand Name] as a post-directed application at more than 3.0 fl. oz. per acre per year.
- **Do not** apply **Meso 4 SC Select** [Alternate Brand Name] as a broadcast pre-emergence or broadcast postemergence application to okra or severe injury will occur.
- If the okra crop treated with Meso 4 SC Select [Alternate Brand Name] is lost or destroyed, okra can be replanted only in the soil band that was not treated with Meso 4 SC Select [Alternate Brand Name].
- Do not apply **Meso 4 SC Select** [Alternate Brand Name] directly over the planted okra row or severe crop injury may occur. Injury risk is greatest on coarse textured soils (sand, sandy loam or loamy sand).

#### **CROP USE DIRECTIONS - PEARL MILLET**

**Meso 4 SC Select** [Alternate Brand Name] may be applied pre-emergence in pearl millet, i.e., after planting but before crop emergence, at a rate up to 6 fl. oz./A. For a list of weeds controlled see Table 2. Do not apply more than one application, and not more than 6 fl. oz./A per crop or per year in pearl millet. If weeds are emerged at the time of application, the use of a crop oil concentrate (COC) type adjuvant at the rate of 1% v/v is needed. In addition, a spray grade UAN (e.g., 28-0-0) at the rate of 2.5% (v/v) or AMS at the rate of 8.5 lbs./100 gals. of spray solution may be added to improve the burndown of existing weeds. Applications of **Meso 4 SC Select** [Alternate Brand Name] to emerged pearl millet can result in severe crop injury.

#### **Pearl Millet Restrictions:**

- **Do not** make more than one application of **Meso 4 SC Select** [Alternate Brand Name] per year.
- **Do not** apply more than 6.0 fl. oz./A per year.

#### **CROP USE DIRECTIONS – RHUBARB**

Meso 4 SC Select [Alternate Brand Name] can be applied prior to crop emergence for weed control in established rhubarb.

Apply **Meso 4 SC Select** [Alternate Brand Name] at a rate of 6.0 fl. oz./A to dormant (prior to any spring green-up) rhubarb for control or partial control of the weeds listed in Table 2. If weeds are emerged at the time of application, it is required that a crop oil concentrate (COC) type adjuvant at 1% v/v or a non-ionic surfactant (NIS) type adjuvant at a rate of 0.25% v/v be added to the spray solution. Applications of **Meso 4 SC Select** [Alternate Brand Name] to rhubarb that is not dormant may result in a temporary bleaching symptomology. Rainfall or irrigation after the **Meso 4 SC Select** [Alternate Brand Name] application may increase the risk of injury to emerging rhubarb.

#### **Rhubarb Restrictions:**

- Do not harvest rhubarb within 21 days following the application of Meso 4 SC Select [Alternate Brand Name].
- Do not make more than one application of Meso 4 SC Select [Alternate Brand Name] per year.
- **Do not** apply more than 6.0 fl. oz./A per year.

#### **CROP USE DIRECTIONS – SORGHUM (GRAIN and SWEET)**

#### **Pre-Emergence Applications**

Make pre-emergence application of **Meso 4 SC Select** [Alternate Brand Name] or pre-plant non-incorporated applications up to 21 days before planting sorghum for control or partial control of the weeds listed in Table 2.

Apply 6.0-6.4 fl. oz./A broadcast non-incorporated application prior to sorghum emergence. Making the application less than 7 days before planting will increase the risk of plant injury, especially if rainfall or irrigation occurs after the application. Injury symptoms include temporary bleaching of newly emerged leaves. Making application of this product 8-21 days prior to planting will decrease risk of crop injury.

If **Meso 4 SC Select** [Alternate Brand Name] is applied prior to planting, minimize disturbance of soil treated with herbicide during the planting process in order to reduce the potential for weed emergence.

If emerged weeds are present at the time of pre-emergence application, use 0.25% v/v of a non-ionic surfactant (NIS) adjuvant or 1% v/v of crop oil concentrate (COC) and add it to the spray solution. A spray-grade UAN applied at a rate of 2.5% v/v or 8.5 lbs./100 gallons of spray solution of ammonium sulfate (AMS) can be added to the spray solution in addition to the COC or NIS.

#### **Pre-Emergence Application Restrictions:**

- Do not make more than one pre-emergence application of Meso 4 SC Select [Alternate Brand Name].
- **Do not** apply more than 6.4 fl. oz./A of **Meso 4 SC Select** [Alternate Brand Name] per year.
- **Do not** apply to emerged sorghum or severe crop injury can occur.
- **Do not** use **Meso 4 SC Select** [Alternate Brand Name] in the production of forage sorghum, sudangrass, sorghum-sudangrass hybrids, or dual purpose sorghum.
- **Do not** apply to sorghum that is grown on coarse textured soils (e.g., sandy loam, loamy sand, sand).
- Texas Restriction: Do not apply to sorghum grown south of Interstate 20 (I-20) or east of Highway 277.

#### **Post-Directed Applications**

Apply **Meso 4 SC Select** [Alternate Brand Name] post-directed to grain sorghum to control and/or partially control weeds listed in Table 1. Apply to actively growing weeds for optimal control.

Apply 3.0 fl. oz./A post-directed application when sorghum is at least 8" tall. Make the application by directing the spray between crop rows, and toward the base of the plant. Direct application of **Meso 4 SC Select** [Alternate Brand Name] onto foliage can result in crop injury including temporary bleaching. If leaves do bleach, newly emerged leaves following application will not be affected.

Use 0.25% v/v of a non-ionic surfactant (NIS) adjuvant or 1% v/v of crop oil concentrate (COC) and add it to the spray solution. A spray-grade UAN applied at a rate of 2.5% v/v or 8.5 lbs./100 gallons of spray solution of ammonium sulfate (AMS) can be added to the spray solution in addition to the COC or NIS.

**Meso 4 SC Select** [Alternate Brand Name] can be tank-mixed with herbicides registered for use on sorghum to improve weed control. These tank-mixtures can also include a herbicide with a different mode of action to help control or manage the development of resistant weed biotypes.

#### **Post-Directed Restrictions:**

- Do not make more than one post-directed application of Meso 4 SC Select [Alternate Brand Name].
- **Do not** apply more than 3.0 fl. oz./A of **Meso 4 SC Select** [Alternate Brand Name] post-directed and not more than 6.4 fl. oz./A of **Meso 4 SC Select** [Alternate Brand Name] per grain sorghum crop year.
- **Do not** apply broadcast over-the-top to emerged sorghum or severe crop injury can occur.
- **Do not** harvest sorghum for forage for 30 days following application.
- **Do not** harvest for grain or stover for 60 days following application.
- **Do not** apply after the sorghum seedhead emerges.
- **Do not** use in the production of forage sorghum, sudangrass, or sorghum-sudangrass hybrids.

#### **CROP USE DIRECTIONS – SOYBEAN**

**Meso 4 SC Select** [Alternate Brand Name] can be applied pre-emergence to soybeans that are identified as mesotrione tolerant. Applications to soybeans that are not mesotrione tolerant will result in significant crop injury.

#### **Pre-Emergence Applications**

For pre-emergence control of the weeds listed in Table 2, apply **Meso 4 SC Select** [Alternate Brand Name] prior to soybean emergence at a rate of 6.0 fl. oz./A. Apply the higher rate for longer residual control. **Meso 4 SC Select** [Alternate Brand Name] may be tank mixed with other registered soybean herbicides such as Dual Magnum<sup>®</sup>, Dual II Magnum, and Prefix<sup>®</sup>. Refer to the tank mix partner label and follow all precautions and restrictions.

If weeds are emerged at the time of application, add either a non-ionic surfactant (NIS) at 1 qt./100 gallons (0.25% v/v) or a crop oil concentrate (COC) at 1 gallon/100 gallons (1% v/v). In addition to NIS or COC, also add either ammonium sulfate (AMS) at 8.5-17 lbs./100 gallons (or equivalent).

#### Soybean Restrictions:

- Apply no more than 6.0 fl. oz./A per soybean crop per year.
- Do not make more than one application of Meso 4 SC Select [Alternate Brand Name] per year.
- **Do not** apply to emerged soybeans.
- **Do not** graze or feed soybean forage or hay to livestock.

#### **CROP USE DIRECTIONS – SUGARCANE**

Apply **Meso 4 SC Select** [Alternate Brand Name] by ground for pre-emergence, post-emergence over-the-top or post-emergence direct weed control in sugarcane.

Apply Meso 4 SC Select [Alternate Brand Name] aerially for pre-emergence and post-emergence weed control in the states of: Florida, Louisiana, and Texas.

#### **Pre-Emergence Applications**

Apply 6.0-7.7 fl. oz./A of **Meso 4 SC Select** [Alternate Brand Name] to control weeds listed in Table 2. Make application after the planting of plant-cane or after harvest of ratoon-cane. If weeds are emerged at the time of application, add a crop oil concentrate (COC) type adjuvant at 1% v/v OR a non-ionic surfactant (NIS) type adjuvant at 0.25% v/v to the spray solution. In addition to the COC or NIS, a spray grade UAN at a rate of 2.5% v/v OR ammonium sulfate (AMS) at a rate of 8.5 lbs./100 gals. of spray solution can be added to the spray solution. Tank mix AAtrex<sup>®</sup> or Evik<sup>®</sup> with **Meso 4 SC Select** [Alternate Brand Name] to improve weed control. Refer to the tank mix partner label for specific rates and use directions.

#### **Post-Emergence Applications**

Apply 3.0 fl. oz./A of **Meso 4 SC Select** [Alternate Brand Name] to control weeds listed in Table 1. Apply as a post-overthe-top or as a post- directed spray to the base of the sugarcane. If a pre-emergence application was made earlier in the season, only one single post-emergence application can be made. If no pre-emergence application was made earlier in the season, then both a post-over-the-top and a post-directed spray application can be made. For optimum weed control, apply to actively growing weeds.

Add either a crop oil concentrate (COC) adjuvant at 1% v/v OR a non-ionic surfactant (NIS) adjuvant to the spray solution. In addition to the COC or NIS, use a spray grade UAN (e.g., 28-0-0) at 2.5% v/v OR ammonium sulfate (AMS) at 8.5 lbs./100 gals. of spray solution to improve weed control.

For additional post-emergence weed control, tank mix **Meso 4 SC Select** [Alternate Brand Name] with atrazine, Asulox<sup>®</sup> and/or Evoke<sup>®</sup>. Refer to the tank mix product label for specific rate and use directions.

#### Sugarcane Restrictions:

- **Do not** apply more than 7.7 fl. oz./A in a pre-emergence application.
- **Do not** apply more than 3.0 fl. oz./A in a post-emergence application.
- **Do not** make more than 2 applications per year. If a pre-emergence application is made, only one postemergence application can be made.
- **Do not** make two applications less than 14 days apart.
- **Do not** apply more than 10.7 fl. oz./A per year.
- **Do not** harvest sugarcane within 114 days following a post-over-the-top treatment (114-day PHI).
- **Do not** harvest sugarcane with 100 days following a post-directed application (100-day PHI).

## **STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Keep container tightly closed when not in use. Keep away from heat and flame. Do not store near seed, fertilizers, or foodstuffs. Can be stored at temperatures as low as minus 20°F. Keep away from heat and flame.

**Pesticide Disposal:** Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited.

**Container Handling** < 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 formulation equipment. 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. Turn the container or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Container Handling > 5 Gallons:** Refillable container. Refill this container with pesticide only. Do not use this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**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 ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Prime Source, LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Prime Source, LLC and Seller harmless for any claims relating to such factors.

Prime Source, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Prime Source, LLC, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, PRIME SOURCE, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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Impact<sup>®</sup> is a trademark of AMVAC Chemical Corporation. Moxy<sup>®</sup> is a trademark of Winfield Solutions, LLC.

GROUP 27 HERBICIDE

# **Meso 4 SC Select**

Sublabel B (Pages 24-32): Provides Selective and Residual Control of Weeds in Ornamental Turfgrasses

Active Ingredient:	By Weight
Mesotrione: 2-[4-(methylsulfonyl)-2-nitrobenzoyl]-1,3-cyclohexanedione	40.0%
Other Ingredients:	<u>60.0%</u>
TOTAL:	100.0%
Contains 4 lbs. Mesotrione per gallon.	

## KEEP OUT OF REACH OF CHILDREN CAUTION

	FIRST AID
IF IN EYES	<ul> <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>
IF ON SKIN	<ul> <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>
IF INHALED	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
IF SWALLOWED	<ul> <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 do so by the poison control center or doctor.</li> <li>Do not give anything to an unconscious person.</li> </ul>
Have the produ treatment.	ict container or label with you when calling a poison control center or doctor, or going for

#### HOT LINE NUMBER

For 24-Hour Medical Emergency Assistance (Human or Animal) call: **1-800-222-1222**. For Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) call CHEMTREC: **1-800-424-9300**.

[See inside label booklet for additional Precautionary Statements and complete Directions for Use.] [See inside booklet for additional Precautionary Statements, complete Directions For Use, & Storage And Disposal.]

EPA Reg. No.: 89442-33 EPA Est. No.: \_\_\_\_\_

Net Contents:

#### MANUFACTURED (For)(By):

Prime Source, LLC P.O. Box 250 10025 Hwy 264 Alternate Middlesex, NC 27557

## **PRECAUTIONARY STATEMENTS**

#### Hazards to Humans and Domestic Animals

#### CAUTION

Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes, or clothing.

#### **Personal Protection Equipment (PPE)**

#### Applicators and Other Handlers much wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical Resistant gloves (barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC), or Viton)

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.

#### USER SAFETY RECOMMENDATIONS

#### Users should:

- Wash hands thoroughly with soap and water 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 and wash contaminated clothing before reuse.
- 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.

#### **Engineering Control Statements**

When handlers use closed systems or enclosed cabs 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.

#### **Environmental Hazards**

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

#### Surface Water Advisory

This product may contaminate water through drift or spray in wind. This product has a high potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

#### **Physical and Chemical Hazards**

Do not use or store near heat or open flame.

## **DIRECTIONS FOR USE**

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

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

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and 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 12 hours.

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
- shoes plus socks
- chemical resistant gloves (barrier laminate, butyl rubber <a>14 mils, nitrile rubber <a>14 mils, poly-ethylene, polyvinyl chloride (PVC) <a>14 mils, and viton <a>14 mils)</a>

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard, 40 CFR Part 170. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, and greenhouses.

#### Do not enter treated areas without protection clothing until sprays have dried.

**Meso 4 SC Select** is applied pre- and post-emergence to provide selective contact and residual control of turfgrass weeds. If applied pre-emergence, it is absorbed when emerging from the soil. Pre-emergence activity and control is reduced under dry conditions. Activate **Meso 4 SC Select** with 0.15 inches of irrigation if rain hasn't fallen within 10 days of application. Post-emergent control is obtained by absorption into the soil and contact with foliage. Growth ceases post-application, weeds turn white from chlorophyll loss, and will die within three weeks. Make a repeat application after 2-3 weeks to improve post-emergence weed control. Add a non-ionic surfactant when making post- emergence applications.

Turfgrass color can temporarily become white during treatment. Whitening typically occurs 5-7 days post-application and lasts for several weeks. A second application to the same site will cause less whitening of plant tissue.

**Meso 4 SC Select** controls weeds prior to and during seeding of certain turfgrasses during turf renovation (see **New Seedings).** If making pre-emergence application to established turf, tank mix **Meso 4 SC Select** with other pre-emergence herbicides including Barricade<sup>®</sup> 65WG for longer residual and broad spectrum control.

#### **Approved Use Sites**

**Meso 4 SC Select** can be applied to commercial and residential turfgrasses. Non-crop area use sites include golf courses, sod farms, athletic fields, parks, residential and commercial properties, cemeteries, airports, and lawns.

Apply **Meso 4 SC Select** at reduced rates of 4 fl. oz./A or less if tank mixing with atrazine, bentazon, or simazine. Before tank mixing **Meso 4 SC Select** with other herbicides, conduct a compatibility, safety, and efficacy test before treating larger areas. See tank mix partner labels for directions and precautions. The most restrictive directions apply.

Thoroughly clean application equipment after use to avoid injury to sensitive plants.

To avoid injury to sensitive species, keep traffic out of treated areas until sprays have dried; irrigate soil lightly to move **Meso 4 SC Select** from turf foliage before resuming normal irrigation.

#### **Turfgrass Use Restrictions:**

- **DO NOT** overspray or allow spray to drift to ornamentals or flower beds and gardens. Roses and daylilies are particularly sensitive to **Meso 4 SC Select**.
- **DO NOT** apply more than 16 oz. (or 0.50 lb. mesotrione per acre per year) per acre per year.
- **DO NOT** plant any crop other than turfgrass for 18 months post-application of **Meso 4 SC Select** to avoid turfgrass injury.
- **DO NOT** apply organophosphate or carbamate insecticides within 7 days of applying **Meso 4 SC Select**.
- **DO NOT** apply **Meso 4 SC Select** through any type of irrigation system.

- **DO NOT** make aerial applications.
- **DO NOT** use treated clippings to mulch trees or vegetable/flower gardens.
- **DO NOT** apply this product on Bentgrass, *Poa annua*, kikuyugrass, zoysiagrass, seashore paspalum, and bermudagrass; plant injury is unacceptable. Maintain a 5-foot buffer between treated areas and bentgrass or *Poa annua* greens.
- **DO NOT** apply over the top of exposed roots of trees and ornamentals.
- **DO NOT** use on golf course putting greens; maintain a minimum of a 5-foot buffer between putting greens and treated areas.
- **DO NOT** make broadcast applications on residential lawns for pre- and post-emergent weed control unless the home lawn is being reseeded and/or renovated as whitening of some turfgrasses may occur.

#### Turfgrass Species

<b>oplication Rate (Fl. Oz. per Acre)</b> 5-8
5-8
5-8
5
4
-

\*See additional rate instructions below.

#### **RESISTANCE MANAGEMENT**

There is no known resistance to **Meso 4 SC Select** and no known instances of cross-resistance between the active ingredient in **Meso 4 SC Select** (mesotrione, a Group 27 HPPD inhibitor) and other classes of herbicides. Do not apply less than the specified label instructions, and rotate to a herbicide product with a different mode of action to prevent the occurrence of weed resistance if the maximum number of applications and/or rate of product has been met and weeds are not controlled.

#### **APPLICATION INSTRUCTIONS**

#### **Pre-Emergence Applications:**

Apply 4-8 fl. oz. of **Meso 4 SC Select** per acre in at least 30 gallons of water per acre before seeds germinate and as close to seed germination as possible. Combine this product with another pre-emergence herbicide including Barricade 65WG for extended control of crabgrass and foxtail.

#### **Pre-Emergence Application Precautions:**

**Meso 4 SC Select** is most effective on established turf when applied post-emergence unless it is combined with another soil active herbicide.

#### **Pre-Emergence Application Restrictions:**

- **DO NOT** exceed 5 fl. oz. per acre per application to perennial ryegrass, fine fescues, or mixed stands that consist of >50% perennial ryegrass and/or fine fescue.
- St. Augustinegrass sod: **DO NOT** exceed 4 fl. oz. per acre.

#### Application to New Seedings/New Lawns

Apply 5-8 fl. oz. **Meso 4 SC Select** per acre in at least 30 gallons of water per acre before seeding or after seeding of tolerance turfgrass species listed below, except fine fescue, as application to fine fescue can reduce grass density. **Meso 4 SC Select** can be effectively used on grass seed blends that contain <20% by weight hard/fine fescue. For optimal control, apply at grass seeding or as close to seeding as possible.

#### New Seedings/New Lawns Restrictions:

• **DO NOT** spray on newly germinated turfgrass. Delay treatment until grass has been mowed 2-4 times and/or 4 weeks after emergence (whichever is longer).

#### **Post-Emergence Application Instructions:**

Apply 4-8 fl. oz. of **Meso 4 SC Select** per acre in at least 30 gallons of water per acre with a NIS surfactant. Make a repeat application 2-3 weeks later for optimal weed control. Apply to young, actively growing weeds.

#### **Post-Emergence Application Precautions:**

Moisture stress and application to mature weeds can reduce herbicide efficacy.

#### Bentgrass (Agrostis spp.)/Nimbleweed (Muhlenbergia schreberi) Control:

Apply 5 fl. oz. **Meso 4 SC Select** per acre in at least 30 gallons of water per acre combined with a NIS surfactant at 2-3 week intervals for a maximum of 3 applications. For optimal Bentgrass control, apply in late summer/early fall just prior to new growth.

#### St. Augustinegrass (Sod uses only) and Centipedegrass Treatment:

Apply to established turf ONLY.

#### St. Augustinegrass (Sod uses only) and Centipedegrass Restrictions:

- DO NOT exceed 4 fl. oz. Meso 4 SC Select if tank mixing with Atrazine or Simazine.
- **DO NOT** exceed 0.5 lb. atrazine or simazine active ingredient. See atrazine/simazine labels for precautions and restrictions.

#### **Dormant Bermudagrass Application only:**

Apply 5 fl. oz. per acre of **Meso 4 SC Select** to control winter weeds listed in the **Weeds Controlled** table below. Make a repeat application 2-3 weeks later. Application of **Meso 4 SC Select** to semi-dormant turf will cause bermudagrass whitening.

#### **Spot Applications of this product**

Spray Mix	Application Rate	Rate of this product	Rate of NIS adjuvant
2 gallons	1 gallon per 1,000 sq. ft.	1 teaspoon	3 teaspoons

#### **Spot Application Restrictions:**

• DO NOT apply more than 16 oz. of Meso 4 SC Select per acre per year.

#### WEEDS CONTROLLED USING PRE-EMERGENCE APPLICATION

Apply **Meso 4 SC Select** with a grass pre-emergence herbicide including Barricade 65WG Herbicide, except when used to control weeds in new seedings. **Meso 4 SC Select** will control the following weeds using pre- emergence application:

Common Name	Scientific Name
Barnyardgrass	Echinochloa crusgalli
Bentgrass (Creeping)	Agrostis stolonifera
Bluegrass (Annual)*	Poa annua*
Buckhorn Plantain	Plantago lanceloata
Carpetweed	Mollugo verticillata
Chickweed (Common)	Stellaria media
Chickweed (Mouseear)	Cerastium vulgatum
Clover (Large Hop)	Trifolium aureum
Clover (White)	Trifolium repens
Crabgrass (Large)	Digitaria sanguinalis
Crabgrass (Smooth)	Digitaria ischaemum
Crabgrass (Southern)	Digitaria ciliaris
Foxtail (Yellow)	Setaria glauca
Galinsoga	Galinsoga ciliate
Lambsquarters	Chenopodium album
Pigweed (Redroot)	Amaranthus retroflexus
Pigweed (Smooth)	Amaranthus hybridus
Purslane (Common)	Portulaca oleracea
Shepherd's Purse	Capsella bursa-pastoris
Smartweed (Pale)	Polygonum lapathifolium
Smartweed (Pennsylvania)	Polygonum pensylvanicum
Speedwell (Persian)	Veronica persica
Speedwell (Purslane)	Veronica peregrine
Wild Carrot	Daucus carota

\*Suppression only.

#### WEEDS CONTROLLED USING POST-EMERGENCE APPLICATION

Make a second application of **Meso 4 SC Select** 2-3 weeks after initial treatment. For optimal control, add a NIS-type surfactant and apply to young, actively growing weeds. **Meso 4 SC Select** will control the following weeds using post-emergence application:

Common Name	Scientific Name
Barnyardgrass	Echinochloa crusgalli
Bentgrass (Creeping)	Agrostis stolonifera
Buckhorn Plantain	Plantago Ianceloata
Carpetweed	Mollugo verticillata
Chickweed (Common)	Stellaria media
Chickweed (Mouseear)	Cerastium vulgatum
Clover (Large Hop)	Trifolium aureum
Clover (White)	Trifolium repens
Crabgrass (Large)*	Digitaria sanguinalis*
Crabgrass (Smooth)*	Digitaria ischaemum*
Crabgrass (Southern)*	Digitaria ciliaris*
Curly dock	Rumex crispus
Dandelion (Catsear)	Hypochoeris radicata
Dandelion (Common)	Taraxacum officinale
Florida Betony	Stachys floridana
Florida Pusley	Richardia scabra
Foxtail (Yellow)	Setaria glauca
Galinsoga	Galinsoga ciliate
Goosegrass*	Eleusine indica*
Ground Ivy	Glechoma hederacea
Heal-All	Prunella vulgaris
Henbit	Lamium amplexicaule
Lambsquarters (Common)	Chenopodium album
Lawn Burweed	Soliva sessilis
Lovegrass (Tufted)	Eragrostis pectinacea
Marestail	Conyza Canadensis
Nimblewill	Muhlenbergia schreberi
Nutsedge (Yellow)	Cyperus esculentus
Oxalis	Oxalis stricta
Pigweed (Redroot)	Amaranthus retroflexus
Pigweed (Smooth)	Amaranthus hybridus
Purslane (Common)	Portulaca oleracea
Shepherd's Purse	Capsella bursa-pastoris
Smartweed (Pale)	Polygonum lapathifolium
Smartweed (Pennsylvania)	Polygonum pensylvanicum
Sowthistle	Sonchus oleraceus
Swinecress	Coronopus didymus
Thistle (Canada)	Cirsium arvense
Verbena	Verbena hastate
Wild Carrot	Daucus carota
Wild Violet	Viola pratincola
Windmill-grass	Chloris verticillata

\*For optimal control, apply to less than 4 tiller crabgrass and goosegrass.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Keep container tightly closed when not in use. Keep away from heat and flame. Do not store near seed, fertilizers, or foodstuffs. Can be stored at temperatures as low as minus 20°F. Keep away from heat and flame. **Pesticide Disposal:** Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited.

**Container Handling** < 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 formulation equipment. 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. Turn the container for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Container Handling** <u>></u> **5 Gallons:** Refillable container. Refill this container with pesticide only. Do not use this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**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 ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Prime Source, LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Prime Source, LLC and Seller harmless for any claims relating to such factors.

Prime Source, LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Prime Source, LLC, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, PRIME SOURCE, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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