

GROUP

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27

HERBICIDES

Meso Star Plus

A POST-EMERGENCE HERBICIDE FOR WEED CONTROL IN GLYPHOSATE TOLERANT (GT) CORN (FIELD CORN HYBRIDS WITH ROUNDUP READY 2 TECHNOLOGY, ROUNDUP HYBRIDIZATION SYSTEM (RHS) CORN, ROUNDUP READY CORN, ROUNDUP READY CORN 2, ROUNDUP READY SWEET CORN, SWEET CORN HYBRIDS WITH ROUNDUP READY 2 TECHNOLOGY)

ACTIVE INGREDIENTS:

Glyphosate*, N-(phosphonomethyl) glycine 34.0%

Mesotrione** 3.4%

OTHER INGREDIENTS: 62.6%

TOTAL: **100.0%**

Active ingredients per gallon: glyphosate acid 3.8 lbs. and mesotrione 0.38 lb.

*CAS No. 1071-83-6

**CAS No. 104206-82-8

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

See inside booklet for complete First Aid, Precautionary Statements, Directions For Use, and
Limitation of Warranty and Liability.

Manufactured For:

Sharda USA LLC 

7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707

EPA Reg. No. 83529-62
EPA Est. No. 39578-TX-001

Net Contents: 2.5 Gallons

FIRST AID	
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call your poison control center at 1-800-222-1222.</p>	

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Harmful if inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes or clothing. This product may cause skin sensitization reactions in some people. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

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

USER SAFETY REQUIREMENTS

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, 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.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not mix or allow to come in contact with an oxidizing agent. A Hazardous Chemical reaction may occur.

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.

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils, viton ≥ 14 mils
- Shoes plus socks

PRODUCT INFORMATION

Meso Star Plus provides systemic, post-emergence control of emerged grasses, broadleaf weeds and residual control of broadleaf weeds in glyphosate tolerant (GT) corn. Target weeds absorb the product through foliage, stopping growth after application, complete weed destruction within 2 weeks. **Meso Star Plus** will provide 2-4 weeks of residual control of newly emerged broadleaf weeds listed below. **Meso Star Plus** will not provide residual control of grass weeds.

PRODUCT USE PRECAUTIONS

- Apply **Meso Star Plus** post-emergence to glyphosate tolerant (e.g., Roundup Ready®, Agrisure® GT) corn only. Application on corn hybrids that are not glyphosate tolerant will die.
- **Meso Star Plus** may be tank mixed or sequentially applied with pyrethroid insecticides such as Sharda Lambda-Cyhalothrin 1EC.
- Temporary transient bleaching has occurred from post-emergence applications to glyphosate tolerant corn when applied under extreme weather conditions or during periods of high crop stress; however, corn quickly outgrows these effects and develops normally.

PRODUCT USE RESTRICTIONS

- It is the pesticide user's responsibility to ensure that all products in the listed tank mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.
- Do not make more than one application in a year.
- Do not apply this product through any type of irrigation system.
- Do not apply this product with suspension fertilizers or urea ammonium nitrate (UAN) as the carrier.
- Do not apply more than 2 pints (0.95 lb. of glyphosate and 0.095 lb. of mesotrione) of **Meso Star Plus** per acre per growing season.
- Do not make aerial applications of this product.
- Do not graze or feed forage from treated areas for 45 days following application.
- Do not apply to corn taller than 30 inches in height or showing more than 8 leaves, whichever is more restrictive.
- Do not harvest forage, grain, or stover within 45 days after application.
- Do not apply more than 0.24 lb. of mesotrione active ingredient per acre of corn per year as a result of application of all mesotrione-containing products.
- Do not apply more than 6.0 lbs. of glyphosate acid per acre per year as a result of all glyphosate-containing products.
- Do not cultivate corn within 7 days before or after application.
- Do not make post-emergence application of **Meso Star Plus** to corn that has been treated with Counter®, Lorsban® or other organophosphate-containing soil insecticides.
- Do not make a foliar post-emergence tank mix of **Meso Star Plus** with any organophosphate or carbamate insecticide.
- Do not apply any foliar organophosphate or carbamate insecticide post-emergence within 7 days before or 7 days after **Meso Star Plus** application.
- Do not apply **Meso Star Plus** in a tank mix with emulsifiable concentrate grass herbicides.

WEED RESISTANCE MANAGEMENT

Naturally occurring biotypes of grass and broadleaf weed species with resistance to triazines, glyphosate, PPO, HPPD and/or ALS inhibiting herbicides are known to exist. The repeated use of herbicides with the same mode of action is known to lead to the selection of herbicide resistant weeds. Therefore, a good weed resistance management strategy includes a program that contains multiple herbicide modes of action. Sound agronomic practices are also essential to reduce the likelihood that resistant weed populations will develop and integrated strategies are known to manage such problem weeds.

Meso Star Plus contains two active ingredients (glyphosate - a group 9 herbicide and mesotrione - a group 27 herbicide) and two modes of action. Because of the two modes of action, this product is an effective component of a weed resistance management strategy. Apply this product at full specified rates to reduce selection for, or population shifts toward, marginally tolerant weed species and/or species biotypes.

Because glyphosate is one of the active ingredients in **Meso Star Plus**, glyphosate resistance management is critical. This product will control broadleaf weeds that are showing increased tolerance or resistance to glyphosate. When applying this product to broadleaf weeds that are suspected or known resistant to glyphosate, add atrazine and/ or dicamba to provide an additional mode of action. Follow all label directions and restrictions for the atrazine and dicamba products tank mixed. This product will also not control emerged weeds that are resistant to both glyphosate and HPPD inhibiting herbicides. For control of these resistant weeds, a program that includes residual herbicides is essential.

If applying **Meso Star Plus** post-emergence after a mesotrione-containing pre-emergence herbicide, always add atrazine as a tank-mix partner. If an additional post-emergence herbicide must be applied, use an herbicide with a different mode of action other than an HPPD inhibitor (group 27 herbicide).

INTEGRATED PEST (WEED) MANAGEMENT

Meso Star Plus may be integrated into an overall weed management strategy. Follow practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding, and rotations) wherever possible. Consult local agricultural and weed authorities for additional Integrated Pest Management strategies established for your area.

APPLICATION INFORMATION

GROUND APPLICATION

Spray nozzles must be uniformly spaced, the same size and type, and provide accurate and uniform application. Use spray nozzles that provide medium to coarse droplet size to provide good coverage and avoid drift. Good weed coverage is essential for optimum weed control. Boom height for broadcast over-the-top applications is based on the height of the crop.

Use flat fan or Turbo Tee Jet nozzles for optimum coverage. Do not use flood jet nozzles or controlled droplet application equipment for applications of this product. Applications of this product with air induction nozzles may result in non-uniform spray coverage and less than optimum weed control.

Ensure that all inline strainer and nozzle screens in the sprayer are 50-mesh or coarser.

Apply this product in a spray volume of 10-30 gals./A. Use a pump that can maintain the nozzle manufacturer's recommendations and provide proper agitation within the tank to keep the product dispersed. Lower pressures may be used with extended range or drift reduction nozzles. When weed foliage is dense, use a minimum of 15 gals./A.

Always ensure that agitation is maintained until spraying is completed, even if spraying is stopped for brief periods. If the agitation is stopped for more than 5 minutes, recirculate the spray solution by running on full agitation prior to spraying.

SPRAY DRIFT

The interaction of equipment and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making a decision.

The most effective way to reduce spray drift potential is to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable environmental conditions.

INFORMATION ON DROPLET SIZE

The most effective way to reduce spray drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions.

Controlling Droplet Size

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** - Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

APPLICATION HEIGHT

Make applications at the lowest height above the target area that still provides uniform coverage of the target. Making applications at the lowest yet effective height reduces exposure of droplets to wind.

WIND

Drift potential is lowest between wind speeds 10 mph or less. However, many factors including droplet size, pressure, and equipment type determine drift potential at any given wind speed. **Note:** Local terrain can influence wind patterns.

Leave a sufficient buffer downwind of the application to avoid drift to sensitive crops. This buffer may be untreated corn rows or field border species maintained for this purpose. The width of the buffer needed for a specific application will depend on the wind speed, distance to sensitive crops, and application equipment parameters.

TEMPERATURE INVERSIONS

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

SENSITIVE AREAS

This product should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive areas). Do not apply when weather conditions may cause drift to nontarget areas.

MIXING PROCEDURES

CARRIER

Use only clean water as the carrier when applying **Meso Star Plus**.

ADDING MESO STAR PLUS TO THE SPRAY TANK

Before adding **Meso Star Plus** alone or with tank-mix partners, the spray tank must be clean, thoroughly rinsed, and decontaminated before adding either. If water is used as the carrier, use clean water.

MESO STAR PLUS APPLIED ALONE

Fill the spray tank halfway with clean water. Add the specified amount of **Meso Star Plus**. Add the rest of the clean water, maintaining sufficient agitation during mixing and application to maintain a uniform mixture.

MESO STAR PLUS APPLIED IN TANK MIXTURE

For specific tank mix instructions, refer to the crop use directions section of this label.

If applying **Meso Star Plus** in tank mixture with other pesticide products, it is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Do not mix this product with any product that prohibits tank mixing. **Meso Star Plus** must not be tank mixed with any other insecticide, fungicide, fertilizer solution, or adjuvant not specified on the label nor supplemental labeling without first ensuring compatibility to avoid poor mixing. Test compatibility of any tank-mix combination on a small scale, such as a jar test, before actual tank mixing.

TANK MIX COMPATIBILITY TEST

Perform a compatibility test before tank mixing to ensure compatibility of **Meso Star Plus** with other products. The following test assumes a spray volume of 25 gals./A. For other spray volumes, make appropriate changes in the ingredients.

Test Procedure

1. Add 1.0 pt. of clean water to each of two 1 qt. jars with tight lids. **Note:** Use the same source of water that will be used for the tank mix and conduct the test at the temperature the tank mix will be applied.
2. To one of the jars, add 1/4 tsp. or 1.2 milliliters of a compatibility agent approved for this use such as Complex or Unite (1/4 tsp. is equivalent to 2.0 pts./100 gals. spray). Shake or stir gently to mix.
3. To both jars, add the appropriate amount of product(s) in their relative proportions based on specified label rates. If more than one product is used, add them separately with dry products first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix.

4. After adding all ingredients, put lids on and tighten, and invert each jar 10 times to mix. Let the mixtures stand 15-30 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if a compatibility agent is needed in the spray mixture by comparing the two jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (a) slurry the dry product(s) in water before addition, or (b) add 1/2 the compatibility agent to the water and the other 1/2 to the emulsifiable concentrate or flowable pesticide before addition to the mixture. If incompatibility is still observed, do not use the mixture.
5. After compatibility testing is complete, dispose of any pesticide wastes in accordance with the Storage and Disposal sections of the most restrictive product label.

TANK MIX ORDER OF ADDITION

If the tank-mix partner is compatible, fill the tank half full of the water. Start and continue agitation throughout mixing and spraying. All return lines to the spray tank must discharge below the liquid level. Prepare the components and add in the following order:

1. Use sprayers in good running condition with good agitation. The sprayer must be cleaned according to instructions on label of the product used prior to adding **Meso Star Plus**. Use only clean water for the spray solution. Ensure that all inline strainer and nozzle screens in the sprayer are 50-mesh or coarser. Do not use screens finer than 50-mesh.
2. Fill sprayer or premix tank with clean water and engage agitator. Maintain agitation throughout the entire mixing and spraying procedure.
3. When the sprayer or premix tank is half full of water, add Ammonium Sulfate (AMS) and agitate until completely dispersed.
4. Add adjuvant (NIS).
5. If a wettable powder or dry flowable formulation is used, make a slurry with water and add it slowly through the screen into the tank. Maintain agitation.
6. If a flowable formulation is used, add slowly through screen into the tank. To improve mixing and compatibility when a dry flowable is used, dilute with water before adding to the tank.
7. Add **Meso Star Plus**.
8. Add any other tank-mix products next, then emulsifiable concentrates added last.
9. Complete filling the sprayer tank and maintain agitation. Apply as soon as possible after spray mixture is prepared. Do not leave mixture in spray tank overnight without agitation or unattended.

CLEANING EQUIPMENT AFTER APPLICATION

Special attention must be given to cleaning equipment before spraying a crop other than glyphosate tolerant corn. Mix only as much spray solution as needed.

Flush tank, hoses, boom, and nozzles with clean water.

1. Prepare a cleaning solution of 1 gal. household ammonia per 25 gals. water. Many commercial spray tank cleaners may be used.
2. Use a pressure washer to clean the inside of the spray tank with this solution. Take care to wash all parts of the tank, including the inside top surface. If a pressure washer is not available, completely 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 sprayer and thoroughly recirculate the cleaning solution for at least 15 minutes. All visible deposits must be removed from the spraying system.
3. Flush hoses, spray lines, and nozzles for at least 1 minute with the cleaning solution.
4. Dispose of rinsate from steps 1-3 in an appropriate manner.
5. Repeat steps 2-5.
6. Remove nozzles, screens, and strainers and clean separately in the ammonia solution after completing the above procedures.
7. Rinse the complete spraying system with clean water.

WEEDS CONTROLLED

Apply **Meso Star Plus** to weeds less than 4 inches in height. Broadleaf weeds that emerge after applying **Meso Star Plus** are controlled for an additional 2-4 weeks.

Meso Star Plus will not control grasses that are resistant to glyphosate or broadleaf weeds that are resistant to both glyphosate and HPPD inhibiting herbicides.

To control heavy weed populations or resistant weeds, tank mix **Meso Star Plus** with AAtrex®.

Meso Star Plus does not control emerged grasses that are resistant to glyphosate.

Broadleaf Weeds Controlled with Post-Emergence Applications of Meso Star Plus

Common Name	Scientific Name	Common Name	Scientific Name
Amaranth, palmer¹	<i>Amaranthus palmeri</i>	Jimsonweed	<i>Datura stramonium</i>
Amaranth, Powell	<i>Amaranthus powellii</i>	Johnsongrass	<i>Sorghum halepense</i>
Amaranth, spiny	<i>Amaranthus spinosus</i>		
Anoda, spurred	<i>Anoda cristata</i>	Knotweed, prostrate	<i>Polygonum aviculare</i>
Atriplex	<i>Chenopodium orach</i>	Kochia¹	<i>Kochia scoparia</i>
Beggarweed, Florida	<i>Desmodium tortuosum</i>	Lambsquarters, common	<i>Chenopodium album</i>
Buckwheat, wild	<i>Polygonum convolvulus</i>		
Buffalobur	<i>Solanum rostratum</i>	Mallow, Venice	<i>Hibiscus trionum</i>
Burcucumber	<i>Sicyos angulatus</i>	Marshelder	<i>Iva xanthifolia</i>
		Morningglory, entireleaf	<i>Ipomoea hederacea</i>
Carpetweed	<i>Mollugo verticillata</i>	Morningglory, ivyleaf	<i>Ipomoea hederacea</i>
Chickweed, common	<i>Stellaria media</i>	Morningglory, pitted	<i>Ipomoea lacunose</i>
Chickweed, mouseear	<i>Cerastium vulgatum</i>	Morningglory, tall	<i>Ipomoea purpurea</i>
Cocklebur, common	<i>Xanthium strumarium</i>	Mustard, wild	<i>Brassica kaber</i>
Copperleaf, hophornbeam	<i>Acalypha ostryifolia</i>		
Crotalaria, showy	<i>Crotalaria spectabilis</i>	Nightshade, black	<i>Solanum nigrum</i>
Croton, tropic	<i>Croton glandulosus</i>	Nightshade, Eastern black	<i>Solanum ptycanthum</i>
		Nightshade, hairy	<i>Solanum sarrachoides</i>
Dandelion, common	<i>Taraxacum officinale</i>		
Dock, curly	<i>Rumex crispus</i>	Pennycress, field	<i>Thlaspi arvense</i>
		Pigweed, prostrate	<i>Amaranthus blitoides</i>
Eclipta	<i>Eclipta prostrata</i>	Pigweed, redroot	<i>Amaranthus retroflexus</i>
		Pigweed, smooth	<i>Amaranthus hybridus</i>
Galinsoga	<i>Galinsoga parviflora</i>	Pigweed, tumble	<i>Amaranthus albus</i>
Groundcherry, smooth	<i>Physalis longifolia</i>	Pokeweed, common	<i>Phytolacca americana</i>
Groundsel, common	<i>Senecio vulgaris</i>	Potato, volunteer	<i>Solanum spp.</i>
		Puncturevine	<i>Tribulus terrestris</i>
Hemp	<i>Cannabis sativa</i>	Purslane, common	<i>Portulaca oleracea</i>
Henbit	<i>Lamium amplexicaule</i>	Pusley, Florida	<i>Richardia scabra</i>
Horseweed (marestail)¹	<i>Conyza canadensis</i>		

(continued)

Broadleaf Weeds Controlled with Post-Emergence Applications of Meso Star Plus (cont.)

Common Name	Scientific Name	Common Name	Scientific Name
Ragweed, common ¹	<i>Ambrosia artemisiifolia</i>	Spurge, prostrate	<i>Euphorbia humistrata</i>
Ragweed, giant ¹	<i>Ambrosia trifida</i>	Spurge, spotted	<i>Euphorbia maculata</i>
		Sunflower, common	<i>Helianthus annuus</i>
Senna, coffee	<i>Cassia occidentalis</i>		
Sesbania, hemp	<i>Sesbania exaltata</i>	Thistle, Canada	<i>Cirsium arvense</i>
Shepherd's purse	<i>Capsella bursa-pastoris</i>	Thistle, Russian	<i>Salsola iberica</i>
Sicklepod	<i>Cassia obtusifolia</i>		
Sida, prickly (teaweed)	<i>Sida spinosa</i>	Velvetleaf	<i>Abutilon theophrasti</i>
Smartweed, ladysthumb	<i>Polygonum persicaria</i>		
Smartweed, pale	<i>Polygonum lapathifolium</i>	Waterhemp, common ¹	<i>Amaranthus rudis</i>
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>	Waterhemp, tall ¹	<i>Amaranthus tuberculatus</i>

¹For glyphosate resistant weeds such as common ragweed, giant ragweed, horseweed (marestail), Palmer amaranth and waterhemp, the addition of atrazine is required for control.

Grass Weeds Controlled with Post-Emergence Applications of Meso Star Plus

Common Name	Scientific Name	Common Name	Scientific Name
Barnyardgrass	<i>Echinochloa crus-galli</i>	Goosegrass	<i>Eleusine indica</i>
Bluegrass, annual	<i>Poa annua</i>		
Brome, downy	<i>Bromus tectorum</i>	Millet, wild-proso	<i>Panicum miliaceum</i>
Cheat	<i>Bromus secalinus</i>	Oat, wild	<i>Avena fatua</i>
Corn, volunteer (non-GT) ²	<i>Zea mays</i>		
Crabgrass, large	<i>Digitaria sanguinalis</i>	Panicum, fall	<i>Panicum dichotomiflorum</i>
Crabgrass, smooth	<i>Digitaria ischaemum</i>	Panicum, Texas	<i>Panicum texanum</i>
Crowfootgrass	<i>Dactyloctenium aegyptium</i>		
Cupgrass, woolly	<i>Eriochloa villosa</i>	Sandbur, field	<i>Cenchrus incertus</i>
		Sandbur, southern	<i>Cenchrus echinatus</i>
Foxtail, bristly	<i>Setaria verticillata</i>	Shattercane	<i>Sorghum bicolor</i>
Foxtail, giant	<i>Setaria faberi</i>	Signalgrass, broadleaf	<i>Brachiaria platyphylla</i>
Foxtail, green	<i>Setaria viridis</i>	Sorghum, grain (milo)	<i>Sorghum bicolor</i>
Foxtail, yellow	<i>Setaria pumila</i>	Starbur, bristly	<i>Acanthospermum hispidum</i>
		Stinkgrass	<i>Eragrostis ciliarensis</i>
		Witchgrass	<i>Panicum capillare</i>

²Will not control glyphosate tolerant volunteer corn.

Sedges Controlled with Post-Emergence Applications of Meso Star Plus

Common Name	Scientific Name	Common Name	Scientific Name
Nutsedge, yellow	<i>Cyperus esculentus</i>	Nutsedge, purple	<i>Cyperus rotundus</i>

CROP USE DIRECTIONS - GLYPHOSATE TOLERANT CORN

Make post-emergence application of **Meso Star Plus** in glyphosate tolerant corn (e.g. Roundup Ready, Agrisure GT) only to control the weeds listed above. If glyphosate tolerant corn is grown under minimum or no-till conditions, control all emerged weeds at the time of corn planting with a glyphosate or paraquat based herbicide program.

APPLICATION RATE

Make one application of **Meso Star Plus** at 2.0 pts./A (0.95 lb. of glyphosate and 0.095 lb. of mesotrione per acre) post-emergence.

Application rates less than 2.0 pts./A (0.95 lb. of glyphosate and 0.095 lb. of mesotrione per acre) can cause incomplete weed control, as well as less residual weed control. Applying this product at reduced rates increases the risk for the development of weed resist biotypes. See the **WEED RESISTANCE MANAGEMENT** section of this label for specific instructions.

APPLICATION TIMING - CROP

Apply **Meso Star Plus** from emergence up 30 inches tall. Do not apply to corn taller than 30 inches tall or showing more than 8 leaves, whichever is more restrictive.

The best results, apply post-emergence to small (<4") weeds. For optimal control, apply a pre-emergence herbicide followed by a post-emergence application of **Meso Star Plus**.

APPLICATION TIMING - WEEDS

Make post-emergence applications of **Meso Star Plus** to actively growing weeds listed above. Apply to weeds smaller than 4 inches in height, length or diameter. While **Meso Star Plus** can control weeds larger than 4 inches, optimal effectiveness may be reduced.

Visible effects on annual weeds occur 2-4 days post application; effects on perennial weeds can take 7 or more days. Extremely cool or cloudy weather post application can reduce product effectiveness.

SPRAY ADJUVANTS

For effective control of weeds listed, apply **Meso Star Plus** with a non-ionic surfactant (NIS) and ammonium sulfate (AMS).

Non-Ionic Surfactant (NIS): Apply 1-2 qts./100 gals. (0.25-0.5% v/v) of spray solution. Use the higher rate within the specified rate range of NIS when weeds are growing under stress (e.g., cool temperatures, dry weather, etc.). Products must contain a minimum of 80% surface active NIS.

Ammonium Sulfate (AMS): Apply spray grade AMS at 8.5-17.0 lbs./100 gals. of spray solution. Either liquid AMS or blended product can be used, but the final use rate must provide AMS of 8.5-17.0 lbs./100 gals. of water.

Crop Oil Concentrate (COC): Crop oil concentrate can be substituted for NIS, but can increase the potential for crop injury. Apply 1 gals./100 gals. If crop injury occurs, it is transient and corn will recover fully within 5-7 days following application.

Methylated Seed Oil (MSO) Products: Do not use MSO or MSO based products.

Blended Adjuvant Products: Products that contain more than one component (e.g., AMS plus NIS) are acceptable provided that the product delivers the full specified rate of each adjuvant. Use of blended products that deliver less than the full specified rate may result in unacceptable weed control.

SEQUENTIAL WEED CONTROL

Apply **Meso Star Plus** as a post-emergence component of a sequential weed control program.

For example:

Make a pre-emergence application with an herbicide product according to label directions; then make a post-emergence application of **Meso Star Plus** at 2.0 pts./A (0.95 lb. of glyphosate and 0.095 lb. of mesotrione per acre) or apply 2.0 pts./A (0.95 lb. of glyphosate and 0.095 lb. of mesotrione per acre) of **Meso Star Plus** post-emergence; then follow up with a pre-emergence application.

Do not change the application rate of **Meso Star Plus** if applying as part of a sequential weed control program. It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Apply **Meso Star Plus** with a non-ionic surfactant (NIS) and ammonium sulfate (AMS). See the **Spray Adjuvants** section for specific instructions.

MESO STAR PLUS POST-EMERGENCE TANK MIXTURE WITH AATREX BRANDS

Apply **Meso Star Plus** at 2.0 pts./A (0.95 lb. of glyphosate and 0.095 lb. of mesotrione per acre) in tank mixture with AAtrex to control heavy weed populations and/or resistant and/or suspected resistant weeds. Add the labeled rate of AAtrex® 4L. Alternatively, mix AAtrex® Nine-O® with **Meso Star Plus**. Using this product with atrazine at rates above 0.5 lb. a.i./A may result in glyphosate antagonism and reduced grass control.

Apply **Meso Star Plus** with a non-ionic surfactant (NIS) and ammonium sulfate (AMS). See the **Spray Adjuvants** section for specific instructions.

OTHER MESO STAR PLUS POST-EMERGENCE TANK MIXTURES

The tank mixtures with **Meso Star Plus** identified below can be applied post-emergence to glyphosate tolerant corn (i.e., after corn has emerged). Do not apply **Meso Star Plus** at rates less than 2.0 pts./A (0.95 lb. of glyphosate and 0.095 lb. of mesotrione per acre). Making application at reduced rates can increase the risk for the development of weed resist biotypes. See the **WEED RESISTANCE MANAGEMENT** section of this label for specific instructions.

Always add an appropriate adjuvant to the spray tank (see the **Spray Adjuvants** section of this label). Refer to individual product labels for precautionary statements, restrictions, rates, approved uses, and a list of weeds controlled. The most restrictive label language applies.

Meso Star Plus Tank Mixtures for Post-Emergence Application in Corn

Meso Star Plus can be tank-mixed with any of the following products for additional broadleaf weed control: BashAzon, Buctril®, Clarity®, Moxy®, Northstar®, and Status®. It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

ROTATIONAL CROPS

When **Meso Star Plus** is applied as specified on this label, the crop rotation intervals below must be followed. If this product is tank mixed with other products, follow the most restrictive product's crop rotation interval.

Time Interval between Meso Star Plus Application and Replanting or Planting of Rotational Crop

Crop	Replant/Rotational Interval
Corn (all types) and Sorghum (grain and sweet)	Anytime
Small grain cereals, including wheat, barley and rye	4 Months
Alfalfa, Canola, Cotton, Peanuts, Potato, Soybeans, Sunflowers, Tobacco	10 Months
All other rotational crops	18 Months

STORAGE AND DISPOSAL

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

Pesticide Storage

Keep container tightly closed when not in use. Product can be stored at temperatures as low as -10°F. Do not store near seeds, fertilizers, or food stuffs. Keep away from heat and flame.

Pesticide Disposal

Open dumping is prohibited. Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. Thoroughly rinse the spray equipment after use. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of as described above, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling [5 gallons or less]

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Container Handling [greater than 5 gallons]

Refillable container. Refill this container with pesticide only. Do not 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 refiller. 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 IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of SHARDA USA LLC or the seller is authorized to vary in any way. Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product.

Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of SHARDA USA LLC and the seller. To the extent consistent with applicable law the buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, SHARDA USA 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 when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS", AND SHARDA USA LLC MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT SHARDA USA LLC HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE MANUFACTURER.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF SHARDA USA LLC OR

THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SHARDA USA LLC AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

AAtrex®, AAtrex® 4L, AAtrex® Nine-O®, Agrisure® GT, Dual II Magnum®, and Northstar® are Trademarks of Syngenta Group Company

Buctril® is a trademark of Bayer Crop Science

Clarity®, Counter® and Status® are trademarks of BASF Corporation

Lorsban® is a trademark of Dow AgroSciences

Moxy® is a trademark of Winfield Solutions LLC

Roundup Ready® is a trademark of Monsanto Company

Meso Star Plus

GROUP	9	27	HERBICIDES
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A POST-EMERGENCE HERBICIDE FOR WEED CONTROL IN GLYPHOSATE TOLERANT (GT) CORN (FIELD CORN HYBRIDS WITH ROUNDUP READY 2 TECHNOLOGY, ROUNDUP HYBRIDIZATION SYSTEM (RHS) CORN, ROUNDUP READY CORN, ROUNDUP READY CORN 2, ROUNDUP READY SWEET CORN, SWEET CORN HYBRIDS WITH ROUNDUP READY 2 TECHNOLOGY)

ACTIVE INGREDIENTS:

Glyphosate*, N-(phosphonomethyl) glycine 34.0%

Mesotrione** 3.4%

OTHER INGREDIENTS: 62.6%

TOTAL: **100.0%**

Active ingredients per gallon: glyphosate acid 3.8 lbs. and mesotrione 0.38 lb.

*CAS No. 1071-83-6

**CAS No. 104206-82-8

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

See inside booklet for complete Directions For Use and Limitation of Warranty and Liability.

FIRST AID

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

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call your poison control center at **1-800-222-1222**.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if inhaled. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with eyes or clothing. This product may cause skin sensitization reactions in some people. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

STORAGE AND DISPOSAL

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

Pesticide Storage: Keep container tightly closed when not in use.

Product can be stored at temperatures as low as -10°F. Do not store near seeds, fertilizers, or food stuffs. Keep away from heat and flame. **Pesticide**

Disposal: Open dumping is prohibited. Waste resulting from the use of

this product must be disposed of on site or at an approved waste disposal

facility. Thoroughly rinse the spray equipment after use. Improper disposal

of excess pesticide, spray mixture, or rinsate is a violation of Federal law.

If these wastes cannot be disposed of as described above, contact your

State Pesticide or Environmental Control Agency, or the Hazardous Waste

Representative at the nearest EPA Regional Office for guidance. **Container**

Handling [5 gallons or less]: Non-refillable container. Do not reuse or

refill this container. Offer for recycling if available. Triple rinse container

promptly after emptying. Triple rinse as follows: Empty the remaining

contents into application equipment or a mix tank and drain for 10 seconds

after the flow begins to drip. Fill the container 1/4 full with water and recap.

Shake for 10 seconds. Pour rinsate into application equipment or a mix

tank or store rinsate for later use and disposal. Drain for 10 seconds after

the flow begins to drip. Repeat this procedure two more times. Then offer

for recycling if available or puncture and dispose of in a sanitary landfill,

or by incineration, or, if allowed by state and local authorities, by burning.

If burned, stay out of smoke. **Container Handling [greater than 5**

gallons]: Refillable container. Refill this container with pesticide only.

Do not 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 refiller. 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 IS NOT SAFE FOR**

FOOD, FEED, OR DRINKING WATER.

Manufactured For: Sharda USA, LLC 7217 Lancaster Pike, Suite A, Hockessin, Delaware 19707

EPA Reg. No. 83529-62

EPA Est. No. 39578-TX-001

Net Contents: 2.5 Gallons