

66222-249

01/17/2013

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number:
66222-249

Date of Issuance:
JAN 17 2013

NOTICE OF PESTICIDE:

- x Registration
Reregistration
(under FIFRA, as amended)

Term of Issuance: unconditional

Name of Pesticide Product:
MANA 25350 Herbicide

Name and Address of Registrant (include ZIP Code):
Makhteshim Agan of North America, Inc.
3120 Highwoods Blvd.
Suite 100
Raleigh, NC 27604

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The Basic Confidential Statement of Formula (CSF) dated 8/30/12 is acceptable.

This product is registered in accordance with FIFRA section 3(c)(5) provided that you:

- 1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Make the following label revisions:
a. a. Revise "EPA REG. NO. 66222-xxx" to "EPA REG. NO. 66222-249." Assure that the establishment number and net contents are also added to the final printed label.
b. The text in the Personal Protective Equipment (PPE) section on page 2, beginning, "In addition for aerial applications....any N, R, P or HE filter" is not required for this product. This optional language may remain on the label as an additional worker protection measure, or it may be removed from the label.
c. On page 5, in the paragraph beginning, "Rainfall or overhead irrigation...", reiterate in BOLD TEXT the statement, "Do not apply this product through any type of irrigation system."
d. On pages 9 and 11, revise the first sentence of the paragraph beginning, "Post emergence applications of MANA 25350 may be applied..." to read, "Make one post emergence application of MANA 25350 at..."

Comments continue on page 2

Signature of Approving Official:
Kathryn V. Montague
Project Manager 23
Herbicide Branch
Registration Division (7505P)

Date:
JAN 17 2013

3. Submit one (1) copy of the revised final printed label for the record.
4. Applicant is required to submit one-year storage stability data (guideline 830.6317) and corrosion characteristics (guideline 830.6320) studies for 0, 3, 6, 9, and 12 month intervals. The results from both study types must be submitted.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

If you have any questions regarding this notice, please contact Emily Hartman of my staff at 703 347-0189 or hartman.emily@epa.gov.

ACCEPTED
with COMMENTS
In EPA Letter Dated:
JAN 17 2013
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

[Bracketed information is optional text].

MANA 25350

Herbicide

06222-249

MANA 25350 is a selective herbicide which may be applied preplant, preemergence or postemergence for control or suppression of broadleaf weeds, grasses and sedges in soybean.

Active Ingredient	By Wt
Sodium salt of fomesafen	
5-[2-chloro-4-(trifluoromethyl)phenoxy] N-(methylsulfonyl)-2-nitrobenzamide	22.05%*
Ammonium salt of imazethapyr	
(±)-2-[4-(5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-ethyl-3-pyridinecarboxylic acid]	5.38%**
Other Ingredients	72.57%
Total	100.00%

*Equivalent to 21.0% fomesafen (or 2.0 lbs fomesafen acid equivalent per gal)

**Equivalent to 5.1% (+)-2-[4-(5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-5-ethyl-3-pyridinecarboxylic acid (or 0.5 lbs imazethapyr acid equivalent per gal)

KEEP OUT OF REACH OF CHILDREN

Danger/Peligro

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

EPA Reg. No. 66222-xxx

EPA Est. No. XXXXXXXXXX

NET CONTENTS: GAL

FIRST AID	
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 further treatment advice.
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 SWALLOWED:	<ul style="list-style-type: none"> • Call a Poison Control Center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to 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.
HOT LINE NUMBER: Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment. You may also contact Prosar at 1-877-250-9291 for emergency medical treatment information.	
NOTE TO PHYSICIANS: Probable mucosal damage may contraindicate the use of gastric lavage.	

4/19

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS
DANGER/PELIGRO**

This product contains fomesafen which has been determined to cause tumors in laboratory animals (mice). Risks can be reduced by closely following use directions and precautions and by wearing the protective clothing specified elsewhere on this label.

Causes irreversible eye damage. Harmful if inhaled. Harmful if swallowed. Do not get in eyes or on clothing. Do not breathe spraymist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wear: Goggles or face shield, long-sleeved shirt and long pants, Socks, Shoes

PHYSICAL OR CHEMICAL HAZARDS

Do not use with or store near oxidizing agents.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options follow the instructions for category E on an EPA chemical resistance category selection chart.

- Applicators and other handlers must wear
 - Long sleeved shirt and long pants
 - Shoes plus socks
 - Protective eyewear (goggles, face shield or safety glasses)

In addition for aerial applications mixers and loaders handling more than 150 gallons of MANA 25350 in any single workday must wear
Dust/mist filtering NIOSH approved respirator with any N, R, P or HE filter

USER SAFETY RECOMMENDATIONS

Users should:

- Wash 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 PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.
- Remove and wash contaminated clothing before reuse.

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. Do not apply when weather conditions favor drift from target area.

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where permeable, particularly where the water table is shallow.

GROUNDWATER ADVISORY AND PROPER HANDLING INSTRUCTIONS

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells) sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes or reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.

Operations that involve mixing, loading, rinsing or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited, unless conducted on an

impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

DO NOT apply this product through any type of irrigation system.

Product must be used in a manner which will prevent back siphoning in wells, spills or improper disposal of excess pesticide spray mixture.

DIRECTIONS FOR USE

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

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

AGRICULTURAL USE REQUIREMENTS

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

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

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

- Coveralls
- Chemical-resistant gloves (made of any waterproof material)
- Shoes plus socks
- Protective eyewear (goggles, face shield or safety glasses)

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target movement from aerial applications to agricultural field crops.

1. The distance of the outermost nozzles on the boom must not exceed ¾ the length of the wingspan or rotor.
2. 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 should be observed.

The applicator should be familiar with and take into account the information covered in the AERIAL DRIFT REDUCTION ADVISORY section.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

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 will not prevent drift if applications are made improperly or under unfavorable environmental conditions (See Wind Temperature and Humidity and Temperature Inversion sections of this label).

CONTROLLING DROPLET SIZE

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles - Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid-stream nozzles oriented straight back produce the largest droplets and the lower drift.

BOOM LENGTH

For some use patterns, reducing the effective boom length to less than 75% of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT

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

SWATH ADJUSTMENT

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

WIND

Drift potential is lowest between winds speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

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

SENSITIVE AREAS

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

PRODUCT INFORMATION

Read all label directions before using.

MANA 25350 is a selective herbicide which may be applied preplant, preemergence or postemergence for control or suppression of broadleaf weeds, grasses and sedges in soybeans.

Certain germinating broadleaf weeds, grasses and sedges may be controlled or suppressed by soil residual activity from either preplant, preemergent or postemergent applications if rainfall occurs shortly after application. The extent and consistency of soil activity is dependent upon soil characteristics, ground cover, amount of rainfall following application and the rate of **MANA 25350** used.

MANA 25350 also kills weeds by root and/or foliage uptake and rapid translocation to the growing points. Adequate soil moisture is important for optimum **MANA 25350** activity. When adequate soil moisture is present, MANA 25350 will provide residual control of susceptible germinating weeds, activity on established weeds will depend on the weed species and the location of its root system in the soil.

MANA 25350 provides effective weed control in conservation tillage systems designed to meet conservation compliance requirements. **MANA 25350** can be applied as an early preplant, preplant incorporated, or preemergence treatment in soybeans. It can also be applied in conventional, minimum tillage and no-till production systems. The application method chosen will depend on the anticipated weed spectrum and applicator preference. Adequate soil moisture is required for optimum activity.

Foundation Treatment for Planned Two-pass Weed Control Programs: MANA 25350 at 1 pint per acre may be applied in conventional and glyphosate-tolerant soybeans as a preemergence application on all soils to reduce competition from weeds for a period of up to 5 weeks when followed by a planned postemergence herbicide application (See Table XXX for a complete list of weeds). Be sure to consult the postemergence herbicide label for weeds controlled, optimum weed size, application rate, additional use directions, precautions, and limitation before use.

HERBICIDES THAT MAY BE APPLIED POSTEMERGENCE FOLLOWING MANA 25350

To provide additional control of certain weeds, MANA 25350™ can be applied alone or in tank mixture and then followed by an application of a postemergence herbicide. Postemergence herbicides that may be applied with MANA 25350 include: Aim®, Arrow®, Assure® II, Basagran®, Cobra®, FirstRate®, Fusilade® DX, Fusion®, Harmony® GT XP, Liberty® 280SL2, Poast®, Poast Plus®, Resource®, Roundup® Brands, Select® and Ultra Blazer®.

Use on glyphosate-tolerant soybeans only.
Use on LibertyLink® soybean only.

Rainfall or overhead irrigation is necessary to move **MANA 25350** into the weed germination zone for effective weed control. The amount of rainfall or irrigation required following application depends on existing soil moisture, soil texture and organic matter content. Sufficient water to moisten the soil to a depth of 2 inches is normally adequate. If adequate moisture is not received within 7 days after treatment, a cultivation or alternative herbicide is recommended to control escaped weeds. When adequate moisture is received after dry conditions, **MANA 25350** will provide residual control of susceptible germinating weeds; activity on established weeds will depend on the weed species and the location of its root system in the soil.

Occasionally, internode shortening and/or temporary yellowing of crop plants may occur following MANA 25350 applications. These effects occur infrequently and are temporary. Normal growth and appearance should resume within 1 to 2 weeks.

Optimum weed control is achieved by postemergent applications of MANA 25350 to young, actively growing broadleaf weeds that are not under stress from moisture, temperature, low soil fertility, mechanical or chemical injury.

Information on Weed Resistance

Naturally occurring biotypes of certain broadleaf species with resistance to fomesafen and imazethapyr and related products (same mode of action) are known to exist. Selection of resistant biotypes, through repeated use of these herbicides, may result in control failures.

If poor performance cannot be attributed to adverse weather conditions or improper application methods a resistant biotype may be present. In such a case, additional treatments with this herbicide or similar mode of action products are not recommended. Consult your local company representative or agricultural advisor for assistance.

When organophosphate (such as Lorsban) or carbamate insecticides are tank mixed with MANA 25350 temporary injury may result to the treated crops.

Use of MANA 25350 herbicide in accordance with label directions is expected to result in normal growth of rotational crops in most situations, however various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and therefore rotational crop injury is always possible. Under some conditions (such as heavy texture soil, high organic matter, low pH or low rainfall) MANA 25350 may cause injury to subsequent planted crops. Vegetable crops and particularly sugar beets are sensitive to MANA 25350 residues in the soil.

Replanting: If replanting is necessary in a field previously treated with MANA 25350, the field may be replanted to soybeans. Rework the soil no deeper than the treated zone. Do not apply a second treatment of MANA 25350.

APPLICATION DIRECTIONS

PREEMERGENCE (SURFACE APPLICATIONS)

MANA 25350 offers flexibility in that it can be utilized in all production tillage systems. It can be applied prior to planting (up to 45 days prior to planting); at planting in conventional, reduced tillage or no-till production systems; or after planting and before crop emergence.

NO-TILL OR REDUCED TILLAGE

Apply **MANA 25350** treatments before, during or after planting. To ensure thorough coverage, use a minimum of 20 gallons of water per acre. Use higher gallonage for fields with dense vegetation or heavy crop residues. For maximum grass control, tank-mix **MANA 25350** with PROWL® or Parallel® PCS. To kill existing vegetation, Gramoxone®, Parazone®, Roundup Powermax® or 2,4-D (early preplant - see 2,4-D label for limitations) may be tank-mixed with **MANA 25350** alone or in combination with PROWL® or Parallel® PCS. Gramoxone®, Parazone®, Roundup Powermax® or 2,4-D should be deleted from the tank-mixture if vegetation is absent at the time of application.

NOTE: Adjust planters to ensure adequate soil coverage of seed.

PREPLANT INCORPORATED APPLICATIONS

MANA 25350 may be applied following land preparation and should be **thoroughly incorporated** to a depth of 1 to 2 inches. If crops are planted on beds, apply and incorporate after bed formation using PTO-driven equipment or a rolling cultivator. Maintain MANA 25350 in the surface 1 to 2 inches of the finished beds. Application may be made up to 45 days prior to planting soybeans.

MANA 25350 is effective both preemergence and post emergence so long as adequate moisture is present for activation. When applied postemergence it works through contact action. Therefore, emerged weeds must have thorough spray coverage for effective control. Some bronzing, crinkling or spotting of soybean leaves may occur following a postemergent application, but soybeans soon outgrow these effects and develop normally.

POSTEMERGENCE APPLICATIONS:

MANA 25305 is effective when used postemergence working through contact action. Therefore emerged weeds must have thorough spray coverage for effective control. Some bronzing crinkling or spotting of soybean leaves may occur following a postemergent application but soybeans soon outgrow these effects and develop normally

Spray Additives

Only spray additives cleared for use on growing crops under 40 CFR 180 1001 may be used in the spray mixture.

For best broad spectrum postemergence control of susceptible broad leaf weeds in Region 2 (see Regional Use Maps) MANA 25350 should be used with 1.0 – 2.5% v/v liquid nitrogen (28% or similar) or a minimum of 8.5 lbs ammonium sulfate per 100 gals of spray volume.

For Postemergence Applications Always Add One of the Following (except in tank mix with products prohibiting spray additives - (See Tank Mix Directions for Use)

Crop Oil Concentrate (COC) or Methylated Seed Oil (MSO)

Use a nonphytotoxic COC or MSO containing 15 - 20% approved emulsifier at 0.5 - 1% v/v (2 – 4 qts /100 Gals.) of finished spray volume. COC or MSO can improve weed control but may slightly reduce crop tolerance.

Nonionic Surfactant (NIS)

Use NIS containing at least 80% active ingredient at 0.25- 0. 5% v/v (1 - 2 qts /100 gals) of finished spray volume.

Other Adjuvants

Adjuvants other than COC or NIS may be used providing the product meets the following criteria.

1. Contains only EPA exempt ingredients.
2. Is nonphytotoxic to the target crop.
3. Is compatible in mixture (May be established through a jar test).
4. Is supported locally for use with MANA 25350 on the target crop through proven field trials and through university and extension recommendations.

Note: no adjuvants are needed for preplant or preemergence applications unless MANA 25350 is being used in a burndown.

Recommended Mixing Order

1. Fill spray tank with half the required amount of water and begin agitation*
2. Add fertilizer (UAN, AMS)
3. Add dry pesticide formulations
4. Add MANA 25350
5. Add liquid pesticide formulation
6. Add adjuvant (MSO, COC or NIS)
7. Add remainder of water and then maintain constant agitation

*Compatibility agent 1 gal /500 gals of water or 0.2% v/v may be added as needed.

Ground Application

Use sufficient spray volume and pressure to ensure complete coverage of the target. A minimum spray volume of 15 gals /A and 30-60 psi at the nozzle tip is recommended. On large weeds and/or dense foliage, use 60 psi and a minimum of 20 gals /A to ensure coverage of weed foliage.

The use of flat fan nozzles will result in the most effective postemergence application of MANA 25350. The sprayer must be calibrated to provide the proper volume and rate per acre. In addition, the boom and nozzle height must be adjusted to provide complete coverage of target weeds.

DO NOT USE FLOOD TYPE OR OTHER SPRAY NOZZLES WHICH DELIVER COARSE LARGE DROPLET SPRAYS.

Band Applications

Thorough weed coverage is important for postemergent control. Best coverage is obtained with a minimum of two nozzles, one directed to each side of the planted row. Application with a single nozzle directed over the top of the row is not recommended for postemergence applications but is suitable for preemergence applications. Cultivation of untreated areas may be needed following band applications. When making postemergence band applications and cultivating in the same operation, position nozzles in advance of the cultivation device. This will reduce dust in the spray area. Dust can intercept spray reducing weed coverage, resulting in less than adequate weed control.

Calculate the amount of herbicide and water volume needed for postemergence band treatment by the following formulas.

Band width in inches

Row width in inches

Broadcast rate per acre = Band herbicide rate per acre

Band width in inches Broadcast volume per acre = Band herbicide rate per acre Row width in inches

Aerial Application

Use sufficient spray volume and pressure to ensure complete coverage of the target. A minimum of 5 gals /A of spray mixture should be applied with a maximum of 40 PSI pressure. When broadleaf weed foliage is dense, use a minimum of 10 gals/A to ensure coverage of weed foliage.

Cultivation

Cultivation prior to application is not recommended. Cultivation may put weeds under stress, reducing weed control. Timely cultivation 1-3 weeks after applying MANA 25350 may assist weed control.

Rainfastness

MANA 25350 requires a 1 hour rain free period for best results when applied postemergence

PRECAUTIONS & RESTRICTIONS

- A maximum of 1 pt of MANA 25350 (or a maximum of 0.25 lbs ai/A of fomesafen and 0.0625 lbs ai /A of imazethapyr from any product containing fomesafen or imazethapyr) may be applied per acre per year in Region 1 (see Regional Map).
- A maximum of 1 pt of MANA 25350 (or a maximum of 0.25 lbs ai/A of fomesafen and 0.0625 lbs ai /A of imazethapyr from any product containing fomesafen or imazethapyr) may be applied per acre on alternate years in Region 2 (see Regional Map).
- Thoroughly clean the spray system with water and a commercial tank cleaner before and after each use.
- Tank mixes of MANA 25350 with other pesticides, fertilizers or any other additives except as specified on this label or other approved Makhteshim Agan of North America supplemental labels may result in tank mix incompatibility, unsatisfactory performance and/or unsatisfactory crop injury.
- Apply postemergence to actively growing weeds. Avoid applying MANA 25350 to weeds or soybeans which are under stress from moisture, temperature, low soil fertility, mechanical or chemical injury, as reduced weed control and/or increased crop injury may result.
- Avoid overlapping spray swaths, as injury may occur to rotational crops.
- To provide adequate spray coverage, ground speed must not exceed 10 MPH during application.
- Do not graze treated areas or harvest for forage or hay.
- Do not apply within 85 days of soybean harvest.
- In New York State - Not for Sale or Use on Long Island.
- Not for Use in Miami-Dade County Florida.
- Do not apply this product through any type of irrigation system.

ROTATIONAL CROP RESTRICTIONS

The following rotational crops may be planted after applying MANA 25350 at recommended rates in soybeans.

Crops To Be Planted	Minimum Rotation Interval (Months After Last MANA 25350 Application)
Dry beans, Snap beans, Soybeans	0
Small grains, Wheat and Rye (except in North Dakota and Minnesota north of Highway #210)	4
Barley	9 1/2
Corn (Field corn and field corn grown for seed) Peanuts and Peas	10
Alfalfa, Sunflowers, Sorghum, Cotton, Sweet corn and Rye (in North Dakota and Minnesota north of Highway #210)	18
Potatoes, Flax	26
All crops not listed in this Rotational Crop Guideline	40

Do not graze rotated small grain crops or harvest forage or straw for livestock.

Replanting

If replanting is necessary in fields previously treated with MANA 25350 the field may be replanted to soybeans. Do not apply a second application of MANA 25350 or other fomesafen containing product as crop injury or illegal residues may occur in harvested crops. If tank-mix combinations were used, refer to product labels for any additional replanting instructions.

Application Timing and Rate

Make one application per year at 1 pt/ acre preemergence, No-till or reduced tillage, preplant incorporated or in burndown applications. MANA 25350 herbicide serves as a foundation treatment for a planned two-pass weed control program. MANA 25350 may be applied in conventional and glyphosate-tolerant soybeans as a preemergence application on all soils to reduce competition from weeds for a period of up to 5 weeks when followed by a planned postemergence herbicide application (See Table XXX for a complete list of weeds). Be sure to consult the postemergence herbicide label for weeds controlled, optimum weed size, application rate, additional use directions, precautions, and limitation before use.

Post emergence applications of MANA 25350 may be applied at 0.75 to 1.0 pint/Acre. Refer to the weed control tables for specific recommendations on weed growth stages and rates. Best broad spectrum postemergence control of susceptible broadleaf weeds is obtained when MANA 25350 is applied early to actively growing weeds. This usually occurs 14 to 28 days after planting.

A maximum of 1 pt of MANA 25350 (or a maximum of 0.25 lbs ai/A of fomesafen and 0.0625 lbs ai /A of imazethapyr from any product containing fomesafen or imazethapyr) may be applied per acre per year in Region 1 (see Regional Map).

PREEMERGENCE (SURFACE APPLICATIONS)

MANA 25350 offers flexibility in that it can be utilized in all production tillage systems. It can be applied prior to planting (up to 45 days prior to planting); at planting in conventional, reduced tillage or no-till production systems; or after planting and before crop emergence. Recommended postemergence treatments include any product or combination of products labeled to control the specific weeds remaining in the field, including glyphosate (for example, Roundup®) brands (for use on glyphosate-tolerant soybeans only) or Liberty® brand (for use on Liberty Link® Soybeans).

NO-TILL OR REDUCED TILLAGE

Apply MANA 25350 treatments before, during or after planting. To ensure thorough coverage, use a minimum of 20 gallons of water per acre. Use higher gallonage for fields with dense vegetation or heavy crop residues. For maximum grass control, tank-mix MANA 25350 with PROWL® or Parallel® PCS. To kill existing vegetation, Gramoxone®, Parazone®, Roundup Powermax® or 2,4-D (early preplant - see 2,4-D label for limitations) may be tank-mixed with MANA 25350 alone or in combination with PROWL® or Parallel®. Gramoxone, Parazone®, Roundup PowerMAX® or 2,4-D should be deleted from the tank-mixture if vegetation is absent at the time of application. Recommended postemergence treatments include any product or combination of products labeled to control the specific weeds remaining in the field, including glyphosate (for example, Roundup®) brands (for use on glyphosate-tolerant soybeans only) or Liberty® brand (for use on LibertyLink® Soybeans).

NOTE: Adjust planters to ensure adequate soil coverage of seed.

PREPLANT INCORPORATED APPLICATIONS

MANA 25350 may be applied following land preparation and should be **thoroughly incorporated** to a depth of 1 to 2 inches. If crops are planted on beds, apply and incorporate after bed formation using PTO-driven equipment or a rolling cultivator. Maintain MANA 25350 in the surface 1 to 2 inches of the finished beds. Application may be made up to 45 days prior to planting soybeans. Recommended postemergence treatments include any product or combination of products labeled to control the specific weeds remaining in the field, including glyphosate (for example, Roundup®) brands (for use on glyphosate-tolerant soybeans only) or Liberty® brand (for use on LibertyLink® Soybeans).

HERBICIDES THAT MAY BE APPLIED POSTEMERGENCE FOLLOWING MANA 25350™

To provide additional control of certain weeds, MANA 25350™ can be applied alone or in tank mixture and then followed by an application of a postemergence herbicide. Postemergence herbicides that may be applied with MANA 25350™ include: Aim®, Arrow®, Assure® II, Basagran®, Cobra®, FirstRate®, Fusilade® DX, Fusion®, Harmony® GT XP, Liberty® 280SL2, Poast®, Poast Plus®, Resource®, Roundup® Brands, Select® and Ultra Blazer®.

Glyphosate (Roundup® Brands) - Use on glyphosate-tolerant soybeans only.
Liberty®-Use on LibertyLink® soybean only.

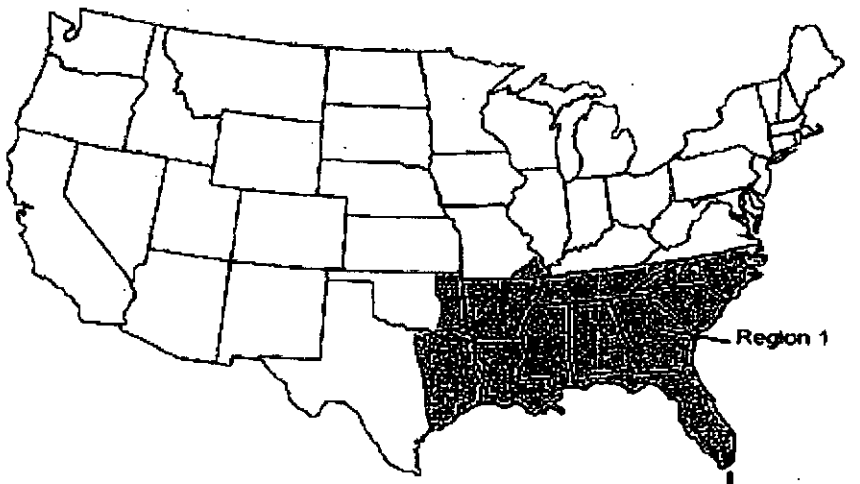
POSTEMERGENCE APPLICATION:

Apply MANA 25350 as an early postemergence treatment when weeds are actively growing and before they exceed a height of 3 inches, unless otherwise indicated. This usually occurs 14 to 28 days after planting. Refer to the weed control tables for specific recommendations on weed growth stages and

rates. Delay application until the majority of the weeds are at the recommended growth stage. Base application timing on weed size and not crop growth stage. Apply MANA 25350 to crops and weeds that are actively growing.

REGION-1 Includes the following states or portion of states

Alabama	North Carolina
Arkansas	Oklahoma
Florida (except Miami-Dade County)	(East of U S Highway 75 and East of Indian Nation Parkway)
Georgia	South Carolina
Louisiana	Tennessee
Mississippi	Texas
Missouri	(all areas East of U S Highway 77 to State Road 239 including all of Calhoun County)
(Counties of Bellinger, Butler, Cape, Girardeau, Dunklin, Madison, Mississippi, New Madrid, Pemiscot, Perry, Ripley, Scott, Stoddard and Wayne)	



Not For Use In Miami-Dade County FL

REGION 2

Application Timing and Rate

Make one application on alternate years at 1 pt/ acre preemergence, No-till or reduced tillage, preplant incorporated or in burndown applications. MANA 25350 herbicide serves as a foundation treatment for a planned two-pass weed control program. MANA 25350 may be applied in conventional and glyphosate-tolerant soybeans as a preemergence application on all soils to reduce competition from weeds for a period of up to 5 weeks when followed by a planned postemergence herbicide application (See Table XXX for a complete list of weeds). Be sure to consult the postemergence herbicide label for weeds controlled, optimum weed size, application rate, additional use directions, precautions, and limitation before use.

Post emergence applications of MANA 25350 may be applied at 0.75 to 1.0 pint/Acre on alternate years. Refer to the weed control tables for specific recommendations on weed growth stages and rates. Best broad spectrum postemergence control of susceptible broadleaf weeds is obtained when MANA 25350 is applied early to actively growing weeds. This usually occurs 14 to 28 days after planting.

A maximum of 1 pt of MANA 25350 (or a maximum of 0.25 lbs ai/A of fomesafen and 0.0625 lbs ai /A of imazethapyr from any product containing fomesafen or imazethapyr) may be applied per acre on alternate years in Region 2 (see Regional Map).

PREEMERGENCE (SURFACE APPLICATIONS)

MANA 25350 offers flexibility in that it can be utilized in all production tillage-systems. It can be applied prior to planting (up to 45 days prior to planting); at planting in conventional, reduced tillage or no-till production systems; or after planting and before crop emergence. Recommended postemergence treatments include any product or combination of products labeled to control the specific weeds remaining in the field, including glyphosate (for example, Roundup®) brands (for use on glyphosate-tolerant soybeans only) or Liberty® brand (for use on LibertyLink® Soybeans).

NO-TILL OR REDUCED TILLAGE

Apply MANA 25350 treatments before, during or after planting. To ensure thorough coverage, use a minimum of 20 gallons of water per acre. Use higher gallonage for fields with dense vegetation or heavy crop residues. For maximum grass control, tank-mix MANA 25350 with PROWL® or Parallel® PCS. To kill existing vegetation, Gramoxone®, Parazone®, Roundup Powermax® or 2,4-D (early preplant - see 2,4-D label for limitations) may be tank-mixed with MANA 25350 alone or in combination with Prowl® or Parallel® PCS, Gramoxone®, Parazone®, Roundup Powermax® or 2,4-D should be deleted from the tank-mixture if vegetation is absent at the time of application. Recommended postemergence treatments include any product or combination of products labeled to control the specific weeds remaining in the field, including glyphosate (for example, Roundup®) brands (for use on glyphosate-tolerant soybeans only) or Liberty® brand (for use on LibertyLink® Soybeans).

NOTE: Adjust planters to ensure adequate soil coverage of seed.

PREPLANT INCORPORATED APPLICATIONS

MANA 25350 may be applied following land preparation and should be **thoroughly incorporated** to a depth of 1 to 2 inches. If crops are planted on beds, apply and incorporate after bed formation using PTO-driven equipment or a rolling cultivator. Maintain MANA 25350 in the surface 1 to 2 inches of the finished beds. Application may be made up to 45 days prior to planting soybeans. Recommended postemergence treatments include any product or combination of products labeled to control the specific weeds remaining in the field, including glyphosate (for example, Roundup®) brands (for use on glyphosate-tolerant soybeans only) or Liberty® brand (for use on LibertyLink® Soybeans).

HERBICIDES THAT MAY BE APPLIED POSTEMERGENCE FOLLOWING MANA 25350

To provide additional control of certain weeds, MANA 25350 can be applied alone or in tank mixture and then followed by an application of a postemergence herbicide. Postemergence herbicides that may be applied with MANA 25350 include: Aim®, Arrow®, Assure® II, Basagran®, Cobra®, FirstRate®, Fusilade® DX, Fusion®, Harmony® GT XP, Liberty® 280SL, Poast®, Poast Plus®, Resource®, Roundup® Brands, Select® and Ultra Blazer®.

Glyphosate (Roundup Brands) - Use on glyphosate-tolerant soybeans only.

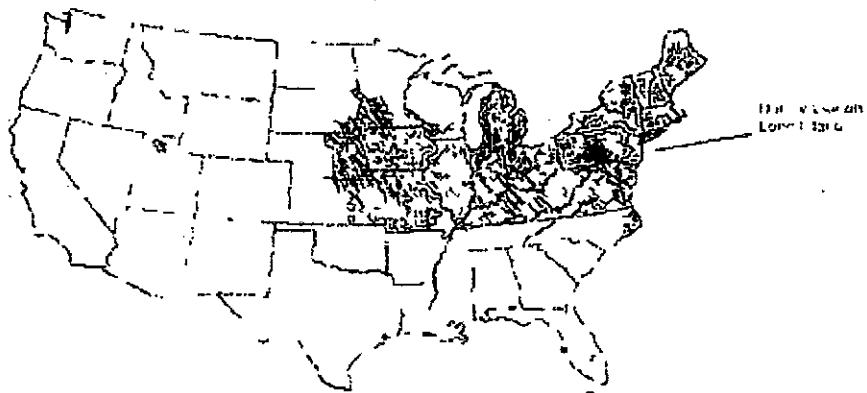
Liberty®-Use on LibertyLink® soybean only.

POSTEMERGENCE APPLICATION:

Apply MANA 25350 as an early postemergence treatment when weeds are actively growing and before they exceed a height of 3 inches, unless otherwise indicated. This usually occurs 14 to 28 days after planting. Refer to the weed control tables for specific recommendations on weed growth stages and rates. Delay application until the majority of the weeds are at the recommended growth stage. Base application timing on weed size and not crop growth stage. Apply MANA 25350 to crops and weeds that are actively growing.

REGION 2 Includes the following states or portion of states

<p>Connecticut Delaware Illinois Indiana Iowa Kansas (all counties East of or intersected by U S Highway 281) Kentucky Maine Maryland Massachusetts Michigan (Southern Peninsula) Minnesota (all areas South of Interstate 94) Missouri (all counties except for those listed in Region 1) Nebraska (all counties East of or intersected by U S Highway 281) New Hampshire</p>	<p>New Jersey New York (except Long Island) North Dakota (all areas East of Interstate 29 from Fargo South to the South Dakota state line) Ohio Pennsylvania Rhode Island South Dakota (all areas East of Interstate 29 from the North Dakota state line to Watertown, all areas East of Highway 81 from Watertown to Madison and all areas East and South of State Road 34 and U S Highway 281 to the Nebraska state line) Vermont Virginia West Virginia Wisconsin (South of U S Highway 18 between Prairie Du Chien and Madison and South of Interstate 94 between Madison and Milwaukee)</p>
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*Suppression only

Weed	MANA 25350 (pt/A)		
	Soil applied	Maximum Growth Stage Controlled At	
		Post emergence	
		3/4 pt/A No of True Leaves	1 pt/A No of True Leaves
Alligator weed	-	-	4
Anoda, Spurred	Control	-	2*
Artichoke, Jerusalem	-		
Brisley starbur	-		2
Buffalobur	Control		
Balloonvine	-	2	2
Carpetweed	Control	-	8 Diameter Size
Citron (Wild Watermelon)	-	-	2
Cocklebur, Common	Partial control	2	4
Copperleaf Hophornbeam	-	-	4
Copperleaf Virginia	-	-	4
Crotalaria Showy	-	-	6
Croton Tropic	-	-	4
Cucumber Volunteer	-	-	4
Eclipta	Control	-	2
Galinsoga spp. (C)	Control		
Groundcherry Cutleaf	-	-	4
Hemp	-	-	4
Horsenettle	-	-	2*
Jimsonweed	Control	4	6
Ladysthumb	Partial control	2*	2
Lambsquarters Common	Control	2*	2*
Horseweed/marestail	Partial control		
Mexicanweed	-	-	2*
Morningglory spp.			
Cypressvine	Partial control	2	4
Entireleaf var	Partial control	3*	3
Ivyleaf	Partial control	3*	3

Purple Moonflower	Partial control	3*	3
Red (Scarlet)	Partial control	3*	3
Smallflower	Control	3*	3
Pitted (Smallwhite)	Partial control	4*	4
Tall (Common)	Partial control	2*	2
Palmleaf (Willowleaf)	Partial control	3*	3
Mustard, Wild	Control	4	6
Nightshade, Black	Control	2	4
Nightshade, Eastern Black	Control	2	4
Nightshade, hairy	PC	-	-
Nutsedge, Yellow	PC	-	-
Pennycress, field	Control		
Pepperweed, Virginia	Control		
Pigweed			
Amaranth Palmer	Control	2	4
Amaranth Spiny	Control	2	2
Redroot	Control	2	4
Smooth	Control	2	4
Waterhemp Common	Control	2*	2
Waterhemp Tall	Control	2*	2
Poinsettia, Wild	Control	-	2
Purslane Common	Control	-	Multi leaf 6 diameter
Puncturevine	Control	-	-
Pusley Florida	Control	-	2
Ragweed, Common	Control	4*	4
Ragweed, Giant	Partial control	4*	4
Redweed	Control		-
Sesbania, Hemp	-	-	8
Sicklepod	-	-	-
Sida, prickly/teaweed	Control	-	2*
Smartweed Pennsylvania	Control	4*	4
Smartweed, ladythumb	Control		-
Smellmelon	-	-	2
Spurge Prostrate	Control	-	-
Spurge Spotted	Control	-	4
Starbur Bristly	Control	-	4
Sunflower Common	Control	-	4
Thistle, Canada	-	-	R
Velvetleaf	Control	-	2

Venice Mallow	-	4	6
Witchweed	-	-	Multi Leaf Up to 7
Yellow Rocket	-	4	4

*Suppression only

USE DIRECTIONS FOR ADDITIONAL WEED PROBLEMS

Suppression of Annual Grasses

The grasses listed below may be suppressed by postemergence applications and controlled or suppressed by preemergence applications of MANA 25350 at 1.0 pts /A. Consult Use Rate Table for maximum rate in each region. For full season broad-spectrum annual grass control Fusilade® DX or Fusion® herbicide should be used alone or in tank mix with MANA 25350 or should be followed with a post emergence program of Glyphosate or Liberty® (in crops developed for tolerance to the respective herbicides). Consult tank mix section.

- Barnyardgrass
- Broadleaf Signalgrass
- Crabgrass
- Foxtail
 - Giant
 - Green
 - Yellow
- Goosegrass
- Johnsongrass Seedling
- Panicum Fall
- Panicum Texas

Suppression of Perennial Weeds

Use of MANA 25350 at postemergence rates of 1.0 pts /A will aid in suppressing the above-ground portions of the weeds listed below until crop canopy can assist in suppression. Perennial weeds continue to regrow from underground rootstocks even if above-ground foliage is temporarily controlled or retarded. Even though MANA 25350 and crop competition can suppress perennial weeds for a growing season, the rootstocks will continue to live and reestablishment will occur in subsequent years.

- Milkweed Climbing
- Milkweed Honeyvine
- Bindweed Field
- Bindweed Hedge
- Trumpet creeper

TANK MIX AND SEQUENTIAL APPLICATIONS FOR SOYBEANS

MANA 25350 SC can be used sequentially or in tank mix with one or more of the following products Assure II®, Basagran®, Butyrac®, Classic®, FirstRate®, Fusilade® DX, Fusion®, Ignite®, Glyphosate (such as Touchdown®, Roundup®, Glyphomax®) Gramoxone®, Harmony®, Poast®, Poast Plus®, Pursuit®, Raptor®, Resource®, Scepter®, Select®, and Synchrony® STS®.

Under certain conditions, the mixture of MANA 25350 with one or more of the above mentioned broadleaf herbicides may cause a reduction in activity of any postemergence grass herbicide in the mixture.

For sequential applications allow 2-3 days after the application of the grass herbicide before applying MANA 25350 or MANA 25350 mixtures. Where MANA 25350 or the MANA 25350 mixture is applied, first apply the grass herbicide when grass weeds begin to develop new leaves (generally around 7 days).

- Tank mix applications can result in increased crop injury as compared to either product used alone
- Do not exceed 1 fl oz of Butyrac® per acre in mixture with MANA 25350
- Do not exceed 0.25 oz /A of Synchrony® STS™ herbicide in the tank with labeled rates of MANA 25350 on non-STs varieties. This tank mix can be applied postemergence to any soybean variety for additional broadleaf weed control. Refer to the Synchrony® STS™ label for more information and crop rotation restrictions.
- Always read and follow the recommendations, restrictions and limitations for all products whether used alone, sequentially or in a tank mix. The most restrictive labeling of any product used applies.

Do not allow this tank mix to move off target as contact by even minute quantities can cause severe damage or death to any non target vegetation.

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE Store above 32 F in original containers only. If product solidifies return to room temperature and agitate to reconstitute. Keep container closed when not in use. Do not store near food or feed In case of spill or leak on floor or paved surfaces soak up with sand earth or synthetic absorbent. Remove to chemical waste area.

PESTICIDE DISPOSAL Pesticide wastes are toxic Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING [Less Than 5 Gallons]

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. 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 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 [For Bulk and Mini Bulk Containers]

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 by other procedures allowed by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD FEED OR DRINKING WATER

LIMITATION OF WARRANTY AND LIABILITY

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

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

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

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Makhteshim Agan of North America, Inc.'s election, the replacement of product.

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