

This is a specimen label, intended for use only as a guide in providing general information regarding use of this product. As labels are subject to revision, always carefully read and follow the label on the product container.

MSM E-AG 60 EG

Herbicide

**For use on Wheat, Barley, Fallow,
Pastures and Rangeland**

ACTIVE INGREDIENT:

Metsulfuron methyl: Methyl 2-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)
amino]-carbonyl]amino]sulfonyl]benzoate

By Weight

60.0%

OTHER INGREDIENTS:

40.0%

TOTAL:

100.0%

KEEP OUT OF REACH OF CHILDREN
CAUTION

See inside label booklet for **FIRST AID**
and additional **PRECAUTIONARY STATEMENTS**

EPA Reg. No. 81959-14
EPA Est. No. 82414-CHN-001

Product of China

Manufactured for:
Etigra, LLC
2214 Hwy 44 West
Inverness, FL 34453

REV 0506-450083


ETIGRA™

FIRST AID	
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.
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.
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 1-800-424-9300 for emergency medical treatment information.	

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Causes eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

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

USER SAFETY RECOMMENDATIONS	
Users Should:	<ul style="list-style-type: none">• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Engineering Control Statements:

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.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

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 apply where runoff water may flow, during periods of intense rainfall or to water-saturated soils as off-target movement and injury may occur. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

This herbicide is injurious to plants at extremely low concentrations. Nontarget plants may be adversely affected from drift and run-off.

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 in your State responsible for pesticide regulation.

MSM E-AG 60 EG Herbicide should be used only in accordance with recommendations on this label.

Etigra will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by Etigra. User assumes all risks associated with such non-recommended use.

Do not apply more than 4 ounces MSM E-AG 60 EG Herbicide per acre per year.

Do not use on food or feed crops except as recommended by this label.

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 4 HOURS.
PPE required for early entry 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:
<ul style="list-style-type: none">• Coveralls• Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS
The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.
Do not enter or allow others to enter the treated area until sprays have dried.
Non-crop industrial weed control, selective weed control in turf (industrial, unimproved only), and weed control in pastures and rangeland are not within the scope of the Worker Protection Standard.

Highlights

- For selective postemergence broadleaf weed control in winter and spring crops of wheat and barley, fallow, pastures, and rangeland.
- Recommended for land primarily dedicated to production of wheat, barley, pasture or rangeland (see Crop Rotation section for information).
- May be applied by ground or by air.
- Use rates are 1/10 oz per acre in wheat and barley.
- Use rates are 1/10 to 4/10 oz per acre as broadcast treatment in pasture or rangeland. Spot treatments allow up to 3/4 oz per acre.
- No grazing restrictions on wheat, barley, pasture or rangeland.
- Applied one time per season, MSM E-AG 60 EG Herbicide can be used in wheat and barley as follows:
 - In dryland crops – apply from 2 leaf stage, but before boot, except on Durum and Wampum varieties.
 - In Durum and Wampum Varieties, apply only with 2,4-D at tillering stage but before boot.
 - In irrigated crops – apply at tillering stage but before boot.
 - As a harvest aid treatment with surfactant (or with 2,4-D + surfactant, or with Roundup®) during dough stages up to 10 days before harvest.
- Apply one time per season to pasture or rangeland for annual weed and selective perennial weed and brush control in several varieties of pasture grasses (also see section on Application Timing).
- Consult label text for complete instructions. Always read and follow label Directions for Use.

IMPORTANT

DO NOT USE ON FOOD OR FEED CROPS EXCEPT AS RECOMMENDED BY THIS LABEL. Injury to or loss of desirable trees or other plants may result if the precautions listed below are not followed.

- Do not apply MSM E-AG 60 EG Herbicide (except as recommended), or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend or in locations where the product may be washed or moved into contact with their roots.
- Do not use on lawns, walks, driveways, tennis courts, or similar areas except as recommended by this label.
- Prevent drift of spray to desirable plants.
- Do not contaminate any body of water, including irrigation water.
- Keep from contact with fertilizers, insecticides, fungicides and seeds.

Spraying and mixing equipment used with MSM E-AG 60 EG Herbicide must not be used for subsequent applications to food or feed crops with the exception of pastures, rangeland and wheat, as low rates of MSM E-AG 60 EG Herbicide can kill or severely injure most food or feed crops.

PESTICIDE HANDLING

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of spray equipment.
- Assure accurate measurement of pesticides by all operation employees.
- Mix only enough product for the job at hand.
- Avoid overfilling of spray tank.
- Do not discharge excess material on the soil at a single spot in the field or mixing/loading station.
- Dilute and agitate excess solution and apply at labeled rates/uses.
- Avoid storage of pesticides near well sites.
- When triple rinsing the pesticide container, be sure to add the rinsate to the spray mix.
- Do not apply this product through any type of irrigation system.

GENERAL INFORMATION

MSM E-AG 60 EG Herbicide is recommended for us on land primarily dedicated to the production of wheat, barley, fallow, pasture and rangeland.

MSM E-AG 60 EG Herbicide is recommended for use on wheat, barley, fallow, pasture, and rangeland in most states, check your state extension or Dept. of Agriculture before use to be certain MSM E-AG 60 EG Herbicide is registered in your state. MSM E-AG 60 EG Herbicide is not registered for use in Alamosa, Conejos, Costilla, Rio Grande and Saquache counties of Colorado.

MSM E-AG 60 EG Herbicide is a dry-flowable granule that controls weeds in wheat (including durum), barley, pasture, rangeland grasses, and fallow. MSM E-AG 60 EG Herbicide is mixed in water or can be preslurried in water and added to liquid nitrogen carrier solutions and applied as a uniform spray mix unless otherwise specified on this label. MSM E-AG 60 EG Herbicide is noncorrosive, nonflammable, nonvolatile, and does not freeze.

MSM E-AG 60 EG Herbicide controls weeds by postemergence activity. For best results, apply MSM E-AG 60 EG Herbicide to young, actively growing weeds. The use rates depend upon the weed spectrum and size of weeds at application. The degree and duration of control may depend on the following factors:

- Weed spectrum and infestation intensity
- Weed size at application
- Environmental condition at and following treatment

TANK MIXES

MSM E-AG 60 EG Herbicide may be tank mixed with other herbicides registered for the use sites described in this label. Use only those tank mix partners which are labeled for the appropriate use site. When tank mixing, use the most restrictive label limitations for each of the products being used in the tank mix.

RESISTANCE

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be accepted. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistance weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

INTEGRATED PEST MANAGEMENT

This product may be used as a part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

MSM E-AG 60 EG Herbicide is absorbed through the foliage of broadleaf weeds, rapidly inhibiting their growth. Leaves of susceptible plants appear chlorotic from 1 to 3 weeks after application and the growing point subsequently dies.

Application of MSM E-AG 60 EG Herbicide provides the best control in vigorously growing crops that shade competitive weeds. Weed control in areas of thin crop stand or seeding skips may not be as satisfactory. However, a crop canopy that is too dense at application can intercept spray and reduce weed control.

MSM E-AG 60 EG Herbicide may injure crops that are stressed from adverse environmental conditions (such as extreme temperatures or moisture), abnormal soil conditions, or cultural practices. In addition, different varieties of the crop may be sensitive to treatment with MSM E-AG 60 EG Herbicide under otherwise normal conditions. Treatment of such varieties may injure crops.

In warm, moist conditions, the expression of herbicide symptoms is accelerated in weeds; in cold, dry conditions, expression of herbicide symptoms is delayed. In addition, weeds hardened-off by drought stress are less susceptible to MSM E-AG 60 EG Herbicide.

Weed control may be reduced if rainfall or snowfall occurs soon after application.

APPLICATION INFORMATION

Use Rates

Wheat (including durum) and Barley

Apply 1/10 oz MSM E-AG 60 EG Herbicide per acre to wheat or barley.

Pasture and Rangeland

Apply 1/10 to 4/10 oz MSM E-AG 60 EG Herbicide per acre as a broadcast treatment to pasture and rangeland. For spot applications, use 1 oz per 100 gal of water. Do not exceed 3/4 oz MSM E-AG 60 EG Herbicide per acre.

Harvest Aid

Apply 1/10 oz MSM E-AG 60 EG Herbicide per acre in combination with 2,4-D or Roundup® to aid in dry down of many broadleaved weeds, thereby aiding grain harvest.

Fallow

Apply MSM E-AG 60 EG Herbicide at 1/10 oz per acre.

Application Timing – Wheat and Barley

Dryland Wheat and Barley (Except Durum or Wampum Variety)

Make applications after the crop is in the 2-leaf stage but before boot.

Durum and Wampum Variety Spring Wheat

Make applications after the crop is tillering but before boot. Applications to durum and wampum varieties should be made in combination with 2,4-D.

Irrigated Wheat and Barley

Make applications after the crop begins tillering but before boot. First post-treatment irrigation should be delayed for at least 3 days after treatment and should not exceed 1 inch of water.

Wheat and Barley – Harvest Aid

Make applications after the crop has reached the hard dough stage but no later than 10 days before harvest. See section on Harvest Aid tank mixtures.

Fallow

MSM E-AG 60 EG Herbicide may be used as a fallow treatment, in the spring or fall when the majority of weeds have emerged and are actively growing.

Do not apply during boot or early heading, as crop injury may result.

Application Timing – Pasture Grasses

MSM E-AG 60 EG Herbicide may be used on some native grasses such as bluestems and grama, and on other pasture grasses such as bermudagrass, bluegrass, orchardgrass, bromegrass, fescue and timothy. Specific application information on several of these pasture grasses follows:

Pasture Grass	Minimum Time from Grass Establishment to MSM E-AG 60 EG Herbicide Application
Bermudagrass	2 months
Bluegrass, Bromegrass, and orchardgrass	6 months
Timothy	12 months
Fescue	24 months

Fescue Precautions:

Note that MSM E-AG 60 EG Herbicide may temporarily stunt fescue, cause it to turn yellow, or cause seedhead suppression. To minimize these symptoms, take the following precautions:

- Tank mix MSM E-AG 60 EG Herbicide with 2,4-D
- Use the lowest recommended rate for target weeds
- Use surfactant at 1/2 to 1 pt per 100 gal of spray solution (1/16 to 1/8% v/v)
- Make application later in the spring after the new growth is 5 to 6 inches tall, or in the fall
- Do not use surfactant when liquid nitrogen is used as a carrier

The first cutting yields may be reduced due to seedhead suppression resulting from treatment with MSM E-AG 60 EG Herbicide.

Timothy Precautions:

Timothy should be at least 6" tall at application and be actively growing. Applications of MSM E-AG 60 EG Herbicide to timothy under any other conditions may cause crop yellowing and/or stunting. To minimize these symptoms, take the following precautions:

- Tank mix MSM E-AG 60 EG Herbicide with 2,4-D
- Use the lowest recommended rate for target weeds
- Use surfactant at 1/2 pt per 100 gal (1/16% v/v)
- Make applications in the later summer or fall
- Do not use surfactant when liquid nitrogen is used as a carrier

Ryegrass Pastures (Italian or perennial): Do not apply MSM E-AG 60 EG Herbicide as injury to or loss of the pasture may result.

Other Pasture: Varieties and species of pasture grasses differ in their tolerance to herbicides. When using MSM E-AG 60 EG Herbicide on a particular grass for the first time, limit use to one container. If no injury occurs throughout the season, larger acreage may be treated the following season. Broadleaf pasture species, such as alfalfa and clover, are highly sensitive to MSM E-AG 60 EG Herbicide and will be severely stunted or injured by MSM E-AG 60 EG Herbicide.

WEEDS CONTROLLED

Unless otherwise directed, treat when weeds are less than 4" tall or in diameter and are actively growing.

Effectiveness may be reduced if rainfall occurs within 4 hours after application.

Cereals, Pasture, Rangeland, and Fallow 1/10 oz per acre

Blue/purple mustard*	Groundsel (common)	Shepherd's purse
Bur buttercup (testiculate)	Henbit	Smallseed falseflax
Coast fiddleneck (tarweed)	Kochia*	Smartweed (green, ladythumb, pale)
Common chickweed	Lambsquarters (common, slimleaf)	Snow speedwell
Common purslane	Mayweed Chamomile	Tansymustard*
Conical catchfly	Miners lettuce	Treacle mustard (Bushy Wallflower)
Cowcockle	Pigweed (redroot, smooth, tumble)	Tumble/Jim Hill mustard
False chamomile	Plains coreopsis	Volunteer sunflower
Field pennycress (fanweed)	Prickly Lettuce*	Waterpod
Filaree	Russian thistle*	Wild mustard
Flixweed*		

Additional Weeds in Pasture / Rangeland Only 1/10 to 2/10 oz per acre

Bitter sneezeweed	Common mullein	Plantain
Buttercup	Curly dock	Wild garlic*
Carolina geranium	Dandelion	Woolly croton*
Common broomweed	Marestail	

2/10 to 3/10 oz per acre

Annual marshelder	Common yarrow	Pensacola bahiagrass*
Blackeyed-Susan	Dogfennel	Purple scabious
Buckbrush †	Horsemint (beebalm)	Western snowberry ‡
Burclover	Musk thistle*	Wild Carrot

4/10 oz per acre

Serecia lespedeza*		
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Weeds Suppressed ‡ *

Cereals, Pasture, Rangeland, and Fallow

1/10 oz per acre

Canada Thistle *	Corn groomwell *	Sowthistle (annual)*
Common sunflower*	Knotweed (prostrate)*	Wild buckwheat*

Brush Suppressed ‡

3/10 oz per acre

Blackberry	Dewberry	Multiflora rose*
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Weed/Brush Suppressed with Spot Application (Pasture/Rangeland Only)

1 oz per 100 gal of water

Blackberry *	Dewberry*	Multiflora rose *
Canada thistle*		

* See the Specific Weed Problems section.

‡ Weed suppression is a reduction in weed competition (reduced population and/or vigor) as visually compared to an untreated area. The degree of suppression varies with the rate used, the size of the weeds, and the environmental conditions following treatment.

Specific Weed Problems

Note: Thorough spray coverage of all weed species listed below is very important.

Blue Mustard, Flixweed, and Tansymustard: For best results, apply MSM E-AG 60 EG Herbicide tank mixtures with 2,4-D or MCPA in the spring after the majority of thistles have emerged and are small (rosette stage to 6" elongating stems) and actively growing. The application will inhibit the ability of emerged thistles to compete with the crop.

For Spot applications to Canada Thistle in pasture and rangeland, apply as a foliar spray once plant is fully leafed. Apply to runoff and include a surfactant in the spray mix at 1 to 2 qt per 100 gal of spray solution. Complete coverage of all foliage and stems is required for control. On tall, dense stands, it is often necessary to spray from both sides to obtain adequate coverage.

Corn Groomwell and Prostrate Knotweed: Apply MSM E-AG 60 EG Herbicide plus surfactant when weeds are actively growing, are no larger than 2" tall, and when crop canopy will allow thorough coverage. Tank mixing 2,4-D or MCPA with MSM E-AG 60 EG Herbicide can improve results.

Kochia, Russian thistle, Prickly lettuce: Naturally occurring resistant biotypes of these weeds are known to occur. For best results, use MSM E-AG 60 EG Herbicide in a tank mix with Banvel®/Banvel® SGF and 2,4-D, or bromoxynil and 2,4-D (such as 3/4 -1 pt Buctril® + 1/4 - 3/8 lb active 2,4-D ester). MSM E-AG 60 EG Herbicide should be applied in the spring when kochia, Russian thistle, and prickly lettuce are less than 2" tall or 2" across and are actively growing (refer to the Tank Mixtures section of this label for additional details).

Sunflower (common/volunteer): Apply either MSM E-AG 60 EG Herbicide plus surfactant or MSM E-AG 60 EG Herbicide plus 2,4-D or MCPA after the majority of sunflowers have emerged, are 2" to 4" tall and are actively growing. Use spray volumes of at least 3 gal by air or 5 gal by ground (10 gal by ground in pastures).

Wild Buckwheat: For best results, apply MSM E-AG 60 EG Herbicide plus 2,4-D or MCPA when plants have no more than 3 true leaves (not counting the cotyledons). If plants are not actively growing, delay treatment until environmental conditions favor active weed growth.

Musk Thistle: Apply MSM E-AG 60 EG Herbicide at 2/10 to 3/10 oz per acre in the spring or early summer prior to flowering or in the fall after newly emerged plants have reached the rosette stage of growth. Fall applications should be made before the soil freezes.

Multiflora Rose: For best control, apply MSM E-AG 60 EG Herbicide as a broadcast application when multiflora rose is less than 3' tall. Application should be made in the spring, soon after multiflora rose is fully leafed.

For spot applications in pasture and rangeland, apply as a foliar spray once plant is fully leafed. Apply to runoff and include a surfactant in the spray mix at 1 to 2 qts per 100 gals of spray solution. Complete coverage of all foliage and stems is required for control. On tall, dense stands, it is often necessary to spray from both sides to obtain adequate coverage.

Blackberry and Dewberry: For spot applications in pasture and rangeland, apply as a foliar spray once plant is fully leafed. Apply to runoff and include a surfactant in the spray mix at 1 to 2 qts per 100 gals of spray solution. Complete coverage of all foliage and stems is required for control. On tall, dense strands, it is often necessary to spray from both sides to obtain adequate coverage.

Pensacola bahiagrass control in established Bermudagrass pasture:

Apply MSM E-AG 60 EG Herbicide at 3/10 oz per acre plus surfactant. Apply after green-up in the spring but before bahiagrass seedhead formation. Application should be made when moisture is sufficient to enhance grass growth. MSM E-AG 60 EG Herbicide is very effective for removal of bahiagrass from bermudagrass pastures. In highly infested pastures, the use of MSM E-AG 60 EG Herbicide can clear the areas of useful forage until the bermudagrass has time to cover the area. Therefore, MSM E-AG 60 EG Herbicide treatments should be spread out over a period of years. Do not apply to an entire farm or ranch in one year. Fertilization (particularly with nitrogen and potassium) and/or replanting may accelerate the process of reestablishment of bermudagrass.

Under heavy bahiagrass pressure, grazing pressure, or adverse weather conditions (heat and drought), bahiagrass regrowth may occur.

Note: MSM E-AG 60 EG Herbicide should not be used for the control of common or Argentine bahiagrass. Also, MSM E-AG 60 EG Herbicide should not be applied in liquid fertilizer solutions for Pensacola bahiagrass control, as poor control and/or regrowth may occur.

Serecia lespedeza: Apply MSM E-AG 60 EG Herbicide at 4/10 oz per acre plus a surfactant at 1 to 2 qt per 100 gal of total spray solution. For best results, make applications to serecia lespedeza beginning at flower bud initiation through the full bloom stage of growth.

Note: Do not make applications if drought conditions exist at intended time of application.

Wild Garlic: Apply 1/10 to 2/10 oz per acre of MSM E-AG 60 EG Herbicide in the early spring when wild garlic is less than 12" tall with 2" to 4" of new growth.

Woolly Croton: Apply 1/10 to 2/10 oz per acre of MSM E-AG 60 EG Herbicide in the late spring or early summer at pre-emergence through 2 true leaf stage.

Surfactants

Unless otherwise specified, add a surfactant having at least 80% active ingredient at 1 to 2 qt per 100 gal of spray solution (0.25 to 0.5% v/v).

Exceptions: (1) On all spring wheat and spring or winter barley use 1/2 to 1 qt per 100 gals; (2) on Fescue pastures use 1/4 qt per 100 gal. (3) on Timothy pastures use 1/4 qt per 100 gals.

Consult your agricultural dealer, applicator, or Etigra representative for a listing of recommended surfactants.

Antifoaming agents may be used if needed.

Do not use low rates of liquid fertilizer as a substitute for surfactant.

Ground Application

To obtain optimum spray distribution and thorough coverage, use flat-fan or low-volume flood nozzles.

For flood nozzles on 30" spacings, use at least 10 gallons per acre (GPA), flood nozzles no larger than TK10 (or equivalent), and pressure of at least 30 pounds per square inch (psi). For 40" nozzle spacings, use at least 20 GPA. It is essential to overlap the nozzles 100% for all spacings.

With "raindrop RA" nozzles, use at least 30 GPA and ensure that nozzle spray patterns overlap 100%.

For flat-fan nozzle, use at least 3 GPA for applications to wheat or barley. Use at least 10 GPA for application to pasture or rangeland.

Use 50-mesh screens or larger.

Aerial Application

Use nozzle types and arrangements that provide optimum spray distribution and maximum coverage.

Wheat, Barley and Fallow – use 1 to 5 GPA. Use at least 3 GPA in Idaho, Oregon, or Utah.

Pasture and Rangeland – Use 2 to 5 GPA.

When applying MSM E-AG 60 EG Herbicide by air in areas adjacent to sensitive crops, use solid stream nozzles oriented straight back. Adjust the swath to avoid spray drift damage to sensitive crops downwind and/or use ground equipment to treat the border edge of fields. See the **Spray Drift Management** section of this label.

TANK MIXTURES

MSM E-AG 60 EG Herbicide may be tank mixed with other suitable registered herbicides to control weeds listed under **Weeds Suppressed**, weeds resistant to MSM E-AG 60 EG Herbicide, or weeds not listed under **Weeds Controlled**. Read and follow all manufacturer's label recommendations for the companion herbicide. If those recommendations conflict with this label, do not tank mix the herbicide with MSM E-AG 60 EG Herbicide.

Tank Mixtures in Cereals (Wheat and Barley)

With 2,4-D (amine or ester) or MCPA (amine or ester)

MSM E-AG 60 EG Herbicide can be used as a tank-mix treatment with 2,4-D or MCPA (ester formulations provide best results) herbicides after weeds have emerged. For best results, use 1/10 oz of MSM E-AG 60 EG Herbicide per acre; add 2,4-D or MCPA herbicides to the tank at 1/4 to 1/2 lb active ingredient. Surfactant may be added to the mixture at 1/2 to 1 qt per 100 gal of spray solution; however, adding surfactant may increase the potential for crop injury.

Apply MSM E-AG 60 EG Herbicide plus MCPA after the 3 to 5-leaf stage but before boot (with Durum and Wampum varieties do not apply before tillering). Apply MSM E-AG 60 EG Herbicide plus 2,4-D after tillering (refer to appropriate 2,4-D manufacturer's label), but before boot.

With Banvel®/ Banvel® SGF

For best results, apply MSM E-AG 60 EG Herbicide at 1/10 oz per acre; add 1/16 to 1/8 lb active ingredient Banvel®/ Banvel® SGF. Surfactant may be added to the mixture at 1/2 to 1 qt per 100 gal of spray solution; however, adding surfactant may increase the potential for crop injury. Also refer to Banvel®/ Banvel® SGF labels for application timing and restrictions.

With 2,4-D (amine or ester) and Banvel®

MSM E-AG 60 EG Herbicide may be applied in a 3-way tank mix with formulations of Banvel® and 2,4-D. Observe all applicable directions, restrictions and precautions on labels of all products used.

Make applications at 1/10 oz of MSM E-AG 60 EG Herbicide + 2-3 oz Banvel® (4-6 oz Banvel® SGF) + 4-6 oz active 2,4-D Ester or Amine per acre. Use higher rates when weed infestation is heavy. Add 1-2 pt of surfactant to the 3 way mixture, where necessary, as deemed by local recommendations. Use of additional surfactant may not be needed with the higher phenoxy rates and ester phenoxy formulations. Consult the specific 2,4-D or Banvel® label, or local recommendations for more information.

Apply this 3-way combination to winter wheat after the crop is tillering and prior to jointing (first node). In Spring Wheat (including Durum wheat) apply after the crop is tillering and before it exceeds the 5-leaf stage.

Do not apply this 3-way mixture at high rates more than once a year or more than twice per year at the low rates.

With bromoxynil (such as Buctril®, Bronate®)

MSM E-AG 60 EG Herbicide may be tank mixed with bromoxynil containing herbicides registered for use on wheat, barley, or fallow. For best results, add bromoxynil containing herbicides to the tank at 3 to 6 oz active ingredient per acre (such as Bronate® or Buctril® at 3/4 - 1-1/2 pt per acre).

Read and follow all label instructions on timing, precautions, and warnings for these herbicides before using these tank mixtures. Follow the most restrictive labeling.

With grass control products

Tank mixtures of MSM E-AG 60 EG Herbicide and grass control products may result in poor grass control. Etigra, LLC recommends that you first consult your state experiment station, university, or extension agent, Agricultural dealer, or Etigra representative as to the potential for antagonism before using the mixture. If no information is available, limit the initial use of MSM E-AG 60 EG Herbicide and the grass product to a small area.

To control wild oat, tank mix MSM E-AG 60 EG Herbicide with Avengo® or Assert®.

When tank mixing MSM E-AG 60 EG Herbicide with Assert®, always include 2,4-D ester, MCPA ester, or Bromoxynil containing products (such as Buctril® or Bronate®). Tank- mixed applications of MSM E-AG 60 EG Herbicide plus Assert® may cause temporary crop discoloration, stunting, or injury when heavy rainfall occurs shortly after application.

Do not tank mix MSM E-AG 60 EG Herbicide with HOELON® 3EC, as grass control may be reduced.

With EXPRESS®

MSM E-AG 60 EG Herbicide may be tank mixed with EXPRESS® based on local recommendations. Read and follow all label instructions on timing, precautions, and warnings for these herbicides before using this tank mixture.

With HARMONY® EXTRA

MSM E-AG 60 EG Herbicide may be tank mixed with HARMONY® EXTRA based on local recommendations. Read and follow all label instructions on timing, precautions, and warnings for these herbicides before using this tank mixture.

With Insecticides and Fungicides

MSM E-AG 60 EG Herbicide may be tank mixed or used sequentially with insecticides and fungicides registered for use on cereal grains.

However, under certain conditions (drought stress, cold weather, or if the crop is in the 2-4 leaf stage), tank mixes or sequential applications of MSM E-AG 60 EG Herbicide with organophosphate insecticides (such as parathion, "Di-Syston") may produce temporary crop yellowing or, in severe cases, crop injury.

The potential for crop injury is greatest when wide fluctuations in day/night temperatures occur just prior to or soon after applications.

Test these mixtures in a small area before treating large areas.

Do not apply MSM E-AG 60 EG Herbicide within 60 days of crop emergence where organophosphate insecticide (such as "Di-Syston") has been applied as an in-furrow treatment, as crop injury may result.

Do not use MSM E-AG 60 EG Herbicide plus Malathion, as crop injury will result.

With Liquid Nitrogen Solution Fertilizer

Liquid nitrogen fertilizer solutions may be used as a carrier in place of water. Run a tank mix compatibility test before mixing MSM E-AG 60 EG Herbicide in fertilizer solution.

MSM E-AG 60 EG Herbicide must first be slurried with water and then added to liquid nitrogen solutions (e.g. 28-0-0, 32-0-0). Ensure that the agitator is running while the MSM E-AG 60 EG Herbicide is added. Use of this mixture may result in temporary crop yellowing and stunting.

If using low rates of liquid nitrogen fertilizer in the spray solution (less than 50% of the spray solution volume), the addition of surfactant is necessary. Add surfactant at 1/2 pt- 1 qt per 100 gal of spray solution (0.06-0.25% v/v) based on local recommendations.

When using high rates of liquid nitrogen fertilizer in the spray solution, adding surfactant increases the risk of crop injury. Consult your agricultural dealer, consultant, fieldman, or Etigra, LLC representative for specific recommendation before adding an adjuvant to these tank mixtures.

If 2,4-D or MCPA is included with MSM E-AG 60 EG Herbicide and fertilizer mixture, ester formulations tend to be more compatible (See manufacturer's label). Do not add surfactant when using MSM E-AG 60 EG Herbicide in tank mix with 2,4-D ester or MCPA ester and liquid nitrogen fertilizer solutions.

Do not use low rates of liquid fertilizer as a substitute for a surfactant.

Do not use with liquid fertilizer solutions with pH less than 3.0.

Tank Mixtures in Harvest Aid

A tank mix of MSM E-AG 60 EG Herbicide plus 2,4-D and surfactant, or Roundup®, will typically aid in dry down of many broadleaved weeds, thereby aiding grain harvest. Postemergence applications should be made to actively growing weeds after the crop is in the hard dough stage. If weeds are not dry within 10 days after application, delay harvest until weeds are dry.

See weeds listed in Weeds Controlled chart of this label.

With 2,4-D

Use 1/10 oz MSM E-AG 60 EG Herbicide plus 1/4 to 1/2 active ingredient 2,4-D per acre on moderate weed infestations; higher rates of 2,4-D may be used on large weeds if permitted by the 2,4-D brand labeling. Include 1 to 2 qt surfactant per 100 gal of spray solution.

In addition to the weeds listed in the Weeds Controlled chart of this label, the 2,4-D combination will also dry down common cocklebur, marestail, puncturevine and common and wild sunflower. In areas where 2,4-D use is restricted, apply MSM E-AG 60 EG Herbicide with surfactant only; however, this treatment may be less effective.

With Roundup®

Use 1/10 oz MSM E-AG 60 EG Herbicide plus the locally recommended rate of Roundup® (See Roundup® label for maximum seasonal rate). MSM E-AG 60 EG Herbicide requires the use of adjuvant for optimum activity- Consult the Roundup® label or local recommendation for the amount of adjuvant to include.

Tank Mixtures in Fallow

MSM E-AG 60 EG Herbicide may be used as a fallow treatment, and may be tank mixed with other herbicides that are registered for use in fallow.

Read and follow all manufacturer's label recommendations for the companion herbicide. If those recommendations conflict with this label, do not mix the herbicide with MSM E-AG 60 EG Herbicide.

Tank Mixtures in Pastures or Rangeland

MSM E-AG 60 EG Herbicide can be applied in a tank-mix combination with Grazon™ P+D, Tordon™ 22K, 2,4-D, Banvel®, or Weedmaster® in states where these products are labeled for postemergence control of the following weeds:

Annual marshelder	Common milkweed	Prickly lettuce
Burclover	Common ragweed	Sunflower
Carolina horsenettle	Giant ragweed	Western ragweed
Common cocklebur		

For best results, apply MSM E-AG 60 EG Herbicide at 1/10 to 2/10 oz per acre with one of the following products:

Product	Rate (oz/A)
Grazon™ P+D	8 to 32
Tordon™ 22K	4 to 16
2,4-D	16 to 32
Banvel®	4 to 32
Weedmaster®	8 to 32
Remedy™	8
Amber®	0.35*

* For suppression of Ragweed in Phenoxy Restricted and Herbicide Regulated Counties.

With Liquid Nitrogen Solution Fertilizer

Liquid nitrogen fertilizer solutions may be used as a carrier in place of water. Run a tank mix compatibility test before mixing MSM E-AG 60 EG Herbicide in fertilizer solution.

MSM E-AG 60 EG Herbicide must first be slurried with water and then added to liquid nitrogen solutions (e.g. 28-0-0, 32-0-0). Ensure that the agitator is running while the MSM E-AG 60 EG Herbicide is added. Use of this mixture may result in temporary crop yellowing and stunting.

If using low rates of liquid nitrogen fertilizer in the spray solution (less than 50% of the spray solution volume), the addition of surfactant is necessary. Add surfactant at 1/4 pt per 100 gal of spray solution (0.03% v/v).

When using high rates of liquid nitrogen fertilizer in the spray solution, adding surfactant increases the risk of crop injury. Consult your agricultural dealer, consultant, fieldman, or Etigra representative for a specific recommendation before adding an adjuvant to these tank mixtures.

If 2,4-D or MCPA is included with MSM E-AG 60 EG Herbicide and fertilizer mixture, ester formulations tend to be more compatible (See manufacturer's label). Do not add surfactant when using MSM E-AG 60 EG Herbicide in tank mix with 2,4-D ester and liquid nitrogen fertilizer solutions.

Do not use low rates of liquid fertilizer as a substitute for a surfactant.

Do not use with liquid fertilizer solutions with a pH less than 3.0.

WEED CONTROL IN GRAIN SORGHUM

Only for use on irrigated or dryland grain sorghum in Colorado, Kansas, Nebraska, Oklahoma, and Texas (North of I-20)

WEED CONTROL, RATES AND TIMING OF APPLICATION

Crop stage. For optimum performance and crop safety, apply MSM E-AG 60 EG Herbicide plus 2,4-D amine when grain sorghum is 3 to 15 inches in height. If sorghum is taller than 10 inches to the top of the canopy, use drop nozzles and keep spray off the foliage. Apply only before the boot stage. Read and follow all other use instructions, warnings and precautions on companion herbicide labels.

Sorghum varieties vary in sensitivity to 2,4-D amine. Spray only varieties known to be tolerant to 2,4-D amine. Contact seed company and Local County Extension Service for this information.

Application Rates: Apply MSM E-AG 60 EG Herbicide at 1/20 oz per acre plus 1/4 lb active ingredient 2,4-D amine per acre. Do not use surfactant or crop oil.

Pest Stage: Application of MSM E-AG 60 EG Herbicide plus 2,4-D amine should be made when all or a majority of the weeds have germinated and emerged. For best results, spray when weeds are less than 6 inches tall.

Weeds Controlled With Tank Mix Of MSM E-AG 60 EG Herbicide plus 2,4-D amine:

Pigweed species	Puncture vine	Velvetleaf
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APPLICATION INFORMATION

MSM E-AG 60 EG Herbicide may be applied to grain sorghum by properly calibrated ground or aerial equipment.

Ground Application: Apply uniformly by ground with a properly calibrated low pressure (20-40 PSI) boom sprayer equipped with flat fan nozzles. Use 10-30 GPA with ground equipment.

Aerial Application: Use orifice discs, cores and nozzle types and arrangements that will provide for optimum spray distribution and maximum coverage at 2 to 5 GPA. Do not apply during inversion conditions, when winds are gusty, or when other conditions will favor poor coverage and/or drift.

MSM E-AG 60 EG Herbicide can be used on either dryland or irrigated grain sorghum. If application is made to irrigated sorghum, delay first post-treatment irrigation for at least 3 days after treatment. The first post-treatment irrigation should not exceed 1".

Use cultivation prior to MSM E-AG 60 EG Herbicide + 2,4-D amine treatment to cover exposed brace roots of grain sorghum to minimize injury from 2,4-D amine.

PRECAUTIONS

- Temporary crop yellowing and/or stunting may occur soon after application, especially when crop is under stress conditions.
- Do not use on grain sorghum grown for seed production or syrup. Do not use on forage sorghum.
- Do not use for forage or silage within 30 days of application.
- Do not include a surfactant or crop oil to the tank mix.
- Do not apply this treatment under cold, wet weather conditions or to grain sorghum growing under stress caused by weather, insects or disease as crop injury may result.
- Do not apply to long season grain sorghum varieties or grain sorghum that is planted after July 1, as crop injury or delayed maturity may occur.
- Do not exceed one (1) application per year.
- MSM E-AG 60 EG Herbicide must be used with 2,4-D; in areas where 2,4-D use is restricted, follow requirement of the restriction. If 2,4-D use is prohibited, do not use MSM E-AG 60 EG Herbicide on grain sorghum.

MSM E-AG 60 EG Herbicide WITH MCPA, 2,4-D AND/OR DICAMBA FOR SUPPRESSION OF WINTER ANNUAL BROADLEAF WEEDS IN WINTER WHEAT TO BE GRAZED OUT IN THE STATES OF TEXAS, OKLAHOMA, NEW MEXICO AND KANSAS

GENERAL INFORMATION

MSM E-AG 60 EG Herbicide can be tank mixed with MCPA, 2,4-D and/or dicamba for suppression of winter annual broadleaf weeds in winter wheat to be grazed out and not harvested for grain, in the States of Texas, Oklahoma, New Mexico and Kansas.

For the suppression of winter annual broadleaf weeds (such as henbit and mustards) in winter wheat in the states of Texas, Oklahoma, New Mexico and Kansas, MSM E-AG 60 EG Herbicide at 0.05 (1/20) ounce per acre should be tank mixed with MCPA, 2,4-D and/or dicamba at label rates. Winter annual broadleaf weeds should be less than 1" tall or in the rosette stage for suppression. Add an Etiga recommended nonionic surfactant having at least 80% active ingredient at 1 to 2 qts per 100 gal of spray solution (0.25 to 0.5% v/v).

MSM E-AG 60 EG Herbicide can also be tank mixed at this rate with approved insecticides. This treatment can be applied by ground or air. However, under certain conditions (drought stress, cold weather, or if the crop is in the 2-4 leaf stage), tank mixes or sequential applications of MSM E-AG 60 EG Herbicide with organophosphate insecticides (such as parathion, "Di-Syston") may produce temporary crop yellowing or, in severe cases, crop injury. The potential for crop injury is greatest when wide fluctuations in day/night temperatures occur just prior to or soon after application. Test these mixtures in a small area before treating large areas. Do not use MSM E-AG 60 EG Herbicide plus Malathion as crop injury will result.

Rotation Intervals For Crops in Non-Irrigated Land Following Use of MSM E-AG 60 EG Herbicide at 0.05 (1/20) Ounces Per Acre on Wheat That Will be Grazed Out

Crop	Soil pH	Minimum Cumulative Precipitation (inches)	Minimum Rotation Interval (months)
Sorghum, Grain	7.9 or lower	No restrictions	4
Cotton	7.9 or lower	No restrictions	10
Alfalfa	6.8 or lower	No restrictions	10
	6.9 to 7.9	No restrictions	22
Beans, Dry	6.8 or lower	No restrictions	10
	6.9 to 7.9	No restrictions	22

Rotation Intervals for crops not covered above following the use of MSM E-AG 60 EG Herbicide at 0.05 (1/20) ounces per acre on wheat that will be grazed out.

The minimum rotation interval is 22 months with at least 18" of cumulative precipitation during the period:

- To any crop not listed in the Rotation Intervals table above
- If the soil pH is not in the specified range

To rotate to a crop at an interval shorter than recommended, a field bioassay must be successfully completed to rotate to that crop. See section on Field Bioassay in the EPA approved MSM E-AG 60 EG Herbicide label for further information.

IMPORTANT RESTRICTIONS

This treatment is for use on winter wheat that will be grazed out and will not be harvested for grain.

IMPORTANT PRECAUTIONS

MSM E-AG 60 EG Herbicide suppresses weeds by postemergence activity. For best results, apply MSM E-AG 60 EG Herbicide to young, actively growing weeds. The degree and duration of suppression at 1/20 ounce per acre may depend upon the following factors:

- Weed spectrum and infestation intensity
- Weed size at application
- Environmental condition at and following treatment

Refer to the MSM E-AG 60 EG Herbicide and tank mix partner labels for additional use directions, restrictions, rotational crop intervals and precautions. The most restrictive provision on the applicable label shall apply. Read and follow all manufacturer label recommendations for the companion herbicides. If those recommendations conflict with this label, do not tank mix the herbicide with MSM E-AG 60 EG Herbicide.

CROP ROTATION

Before using MSM E-AG 60 EG Herbicide, carefully consider your crop rotation plants and options. For rotational flexibility, do not treat all of your wheat, barley, fallow, pasture, or rangeland acres at the same time.

Minimum Rotational Intervals

Minimum rotational intervals* are determined by the rate of breakdown of MSM E-AG 60 EG Herbicide applied. MSM E-AG 60 EG Herbicide breakdown in the soil is affected by soil pH, presence of soil microorganisms, soil temperature, and soil moisture. Low soil pH, high soil temperature, and high soil moisture increase MSM E-AG 60 EG Herbicide breakdown in soil, while high soil pH, low soil temperature, and low soil moisture slow MSM E-AG 60 EG Herbicide breakdown.

Of these 3 factors, only soil pH remains relatively constant. Soil temperature, and to a greater extent, soil moisture, can vary significantly from year to year and from area to area. For this reason, soil temperatures and soil moisture should be monitored regularly when considering crop rotations.

- The minimum rotation interval represents the period of time from the last application to the anticipated date of the next planting.

Soil pH Limitations

MSM E-AG 60 EG Herbicide should not be used on soils having a pH above 7.9, as extended soil residual activity could extend crop rotation intervals beyond normal. Under certain conditions, MSM E-AG 60 EG Herbicide could remain in the soil for 34 months or more, injuring wheat and barley. In addition, other crops planted in high-pH soils can be extremely sensitive to low concentrations of MSM E-AG 60 EG Herbicide.

Checking Soil pH

Before using MSM E-AG 60 EG Herbicide, determine the soil pH of the areas of intended use. To obtain a representative pH value for the test area, take several 0" to 4" samples from different areas of the field and analyze them separately. Consult your local extension publications for additional information on recommended soil sampling procedures.

Rotational Intervals for Cereals

All Areas – Following Use of MSM E-AG 60 EG Herbicide at 1/10 oz per Acre

Crop	Soil pH	Minimum Cumulative Precipitation (inches)	Minimum Rotation Interval (months)
Winter and Spring wheat	7.9 or lower	No restrictions	1
Durum wheat, barley, spring/winter oat	7.9 or lower	No restrictions	10

Rotation Intervals For Crops in Non-Irrigated Land Following Use of MSM E-AG 60 EG Herbicide at 1/10 oz per Acre on Wheat, Barley, Fallow or Pasture

Location		Crop	Soil pH	Minimum Cumulative Precipitation (inches)	Minimum Rotation Interval (months)
State	County or Area				
Colorado	Statewide	Grain sorghum, Proso Millet	7.9 or lower	No restrictions	10
		Flax, Safflower, Sunflower	7.9 or lower	No restrictions	22
	Generally N. of I-70	Field corn	7.9 or lower	15	12
Idaho	Southern Idaho	Flax, Safflower, Sunflower	7.9 or lower	No restrictions	22
	Statewide	Peas Lentils Canola	6.8 or lower	18	10
		Peas	6.9 to 7.9	18	15
		Lentils	6.9 to 7.9	18	34
		Canola	6.9 to 7.9	18	22
Kansas	Statewide	Grain sorghum Proso millet	7.9 or lower	No restrictions	10
		Flax, Safflower, Sunflower	7.9 or lower	No restrictions	22
	Central and Western Kansas (west of the Flint Hills)	Field corn	7.9 or lower	15	12
	Western Kansas W. of Hwy. 183	Soybeans	7.5 or lower 7.6-7.9	22 33	22 34
	Central Kansas; generally E of Hwy. 183 and W of the Flint Hills	Soybeans	7.9 or lower	15	12
Montana	Statewide	Grain sorghum, Proso millet, Field corn	7.9 or lower	22	22
		Alfalfa (hay only)	7.6-7.9	No restrictions	34
			7.5 or lower	No restrictions	22
		Flax, Safflower, Sunflower	7.9 or lower	No restrictions	22
Nebraska	Statewide	Grain sorghum, Proso millet	7.9 or lower	No restrictions	10
		Flax, Safflower, Sunflower	7.9 or lower	No restrictions	22
	Generally W. of Hwy. 77 and E of the Panhandle	Field corn	7.9 or lower	15	12
		Soybeans	7.5 or lower 7.6 – 7.9	22 33	22 34
New Mexico	Statewide	Grain sorghum Proso millet	7.9 or lower	No restrictions	10
		Flax, Safflower, Sunflower	7.9 or lower	No restrictions	22
	Eastern New Mexico	Cotton (dryland only)	7.9 or lower	30	22
North Dakota	W. of Hwy. 1	Grain sorghum, Proso millet, Field corn, Dry beans, Flax, Safflower, Sunflower	7.9 or lower	22	22
	E. of Hwy. 1	Grain sorghum, Proso millet, Field corn, Dry beans, Flax, Safflower, Sunflower	7.9 or lower	34	34

Rotation Intervals For Crops in Non-Irrigated Land (continued)
Following Use of MSM E-AG 60 EG Herbicide at 1/10 oz per Acre on Wheat, Barley, Fallow or Pasture

Location		Crop	Soil pH	Minimum Cumulative Precipitation (inches)	Minimum Rotation Interval (months)
State	County or Area				
Oklahoma	Statewide	Grain sorghum Proso millet	7.9 or lower	No restriction	10
		Flax Safflower, Sunflower	7.9 or lower	No restrictions	22
		Field corn	7.9 or lower	15	12
	Panhandle	Cotton (dryland only)	7.9 or lower	30	22
	E. of the Panhandle	Cotton (dryland only)	7.9 or lower	25	14
Oregon	Statewide	Peas Lentils Canola	6.8 or lower	18	10
		Peas	6.9 to 7.9	18	15
		Lentils	6.9 to 7.9	18	34
		Canola	6.9 to 7.9	18	22
South Dakota	Statewide	Flax Safflower Sunflower	7.9 or lower	No restrictions	22
		S. of Hwy. 212 & E. of the Missouri River, & S. of Hwy. 34 & W. of Missouri River	7.9 or lower	13	12
	Generally E. of Missouri River & S. of Hwy. 14, & W. of Missouri River	Field corn	7.9 or lower	15	12
Texas	Statewide	Grain sorghum Proso millet	7.9 or lower	No restrictions	10
		Flax Safflower Sunflower	7.9 or lower	No restrictions	22
	Panhandle	Field corn	7.9 or lower	15	12
		Cotton (dryland only)	7.9 or lower	30	22
	N. Central Texas *	Field corn	7.9 or lower	15	12
		Cotton (dryland only)	7.9 or lower	25	14
	* The counties of N. Central Texas are: Archer, Baylor, Bell, Bosque, Bowie, Callahan, Camp, Cass, Clay, Collin, Cooke, Coryell, Dallas, Delta, Denton, Eastland, Ellis, Falls, Fannin, Foard, Franklin, Grayson, Hardeman, Haskell, Hill, Hood, Hopkins, Hunt, Jack, Johnson, Kaufman, Knox, Lamar, Limestone, McLennan, Milam, Montague, Morris, Nafarro, Palo Pinto, Parker, Rains, Red River, Robertson, Rockwall, Shackelford, Somervell, Stephens, Tarrant, Throckmorton, Titus, Upshur, Van Zandt, Wilbarger, Wichita, Williamson, Wise, Wood, Young.				
	Washington	Statewide	Peas Lentils Canola	6.8 or lower	18
Peas			6.9 to 7.9	18	15
Lentils			6.9 to 7.9	18	34
Canola			6.9 to 7.9	18	22
Utah	Statewide	Flax Safflower Sunflower	7.9 or lower	No restrictions	22
Wyoming	Statewide	Flax Safflower Sunflower	7.9 or lower	No restrictions	22
		Grain sorghum Proso millet	7.9 or lower	No restrictions	10
	Southern Wyoming (Goshen, Laramie, and Platte counties only)	Field corn	7.9 or lower	15	12
	Northern Wyoming	Grain sorghum Proso millet Field corn	7.9 or lower	22	22

Rotation Intervals not covered above – The minimum rotation interval is 34 months with at least 28" of cumulative precipitation during the period:

- To any major field crop not listed (See the Rotation Intervals table)
- If the soil pH is not in the specified range
- If the use rate applied is not specified in the table
- Or if the minimum cumulative precipitation has not occurred since application

To rotate to a major field crop at an interval shorter than recommended, a field bioassay must be successfully completed to that crop. A field bioassay must be successfully completed before rotation to any minor crops (as determined by the USDA criteria). See section on Field Bioassay for further information.

Rotation Intervals in Pasture or Rangeland for Overseeding and Renovation

Location	Crop	Maximum MSM E-AG 60 EG Herbicide Rate on Pasture (oz per A)	Minimum Rotation Interval (months)
AL, AR, FL, GA, KY, LA, MS, NC, OK, SC, TN, TX, VA, WV	Alfalfa, red clover, white clover, sweet clover, bermudagrass, bluegrass, orchardgrass, bromegrass, ryegrass, fescue, timothy	1/10 to 3/10	4
	Wheat (except durum)	1/10 to 3/10	1
	Durum, Barley, Oat	1/10 to 3/10	10
	ALL AREAS NOT INCLUDED ABOVE *	1/10 to 2/10	12
	Bermudagrass, bluegrass, orchardgrass, bromegrass, ryegrass, timothy	1/10 to 2/10	6
	Fescue	1/10 to 2/10	18
	Wheat (except durum)	1/10 to 2/10	1
	Durum, barley, oat	1/10 to 2/10	10

Rotation Intervals not covered above – The minimum rotation interval is 34 months with at least 28" of cumulative precipitation during the period:

- To any major field crop or pasture crop not listed (See the Rotation Intervals Table)
- If the use rate applied is not specified in the table

To rotate to a major field crop at an interval shorter than recommended, a field bioassay must be successfully completed before rotation to that crop. A field bioassay must be successfully completed before rotation to any minor crops (as determined by the USDA criteria). See section on Field Bioassay for further information.

BIOASSAY

A field bioassay must be completed before rotating to any crop not listed (See the Rotation Intervals table), or if the soil pH is not in the specified range, or if the use rate applied is not specified in the table, or if the minimum cumulative precipitation has not occurred since application.

Field Bioassay

To conduct a field bioassay, grow test strips of the crop or crops you plan to grow the following year in fields previously treated with MSM E-AG 60 EG Herbicide. Crop response to the bioassay will indicate whether or not to rotate to the crop(s) grown in the test strips.

If a field bioassay is planned, check with your local Agricultural dealer or Etigra representative for information detailing the field bioassay procedure.

GRAZING

There are no grazing restrictions on MSM E-AG 60 EG Herbicide.

IMPORTANT PRECAUTIONS

Treated vegetation may be cut for forage or hay. Coveralls, shoes plus socks must be worn if cutting within 4 hours of treatment.

MIXING INSTRUCTIONS

1. Fill the tank 1/4 to 1/3 full of water (if using liquid nitrogen fertilizer solution in place of water, see Tank Mixtures sections for additional details).
2. While agitating, add the required amount of MSM E-AG 60 EG Herbicide.
3. Continue agitation until the MSM E-AG 60 EG Herbicide is fully dispersed, at least 5 minutes.
4. Once the MSM E-AG 60 EG Herbicide is fully dispersed, maintain agitation and continue filling tank with water. MSM E-AG 60 EG Herbicide should be thoroughly mixed with water before adding any other material.
5. As the tank is filling, add tank mix partners (if desired) then add the necessary volume of nonionic surfactant. Always add surfactant last.
6. If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly re-agitate before using.
7. Apply MSM E-AG 60 EG Herbicide spray mixture within 24 hours of mixing to avoid product degradation.
8. If MSM E-AG 60 EG Herbicide and a tank mix partner are to be applied in multiple loads, pre-slurry the MSM E-AG 60 EG Herbicide in clean water prior to adding to the tank. This will prevent the tank mix partner from interfering with the dissolution of MSM E-AG 60 EG Herbicide.

Do not use MSM E-AG 60 EG Herbicide with spray additives that reduce the pH of the spray solution to below 3.0.

SPRAY EQUIPMENT

For specific application equipment, refer to the manufacturer's recommendations for additional information on GPA, pressure, speed, nozzle types and arrangements, nozzle heights above the target canopy, etc. Be sure to calibrate air or ground equipment properly before application. Select a spray volume and delivery system that will ensure thorough coverage and a uniform spray pattern with minimum drift. Use higher spray volumes to obtain better coverage when the crop canopy is dense. Avoid swath overlapping, and shutoff spray booms while starting, turning, slowing, or stopping to avoid crop injury.

Do not make applications using equipment and/or spray volumes or under weather conditions that might cause spray to drift onto nontarget sites. For additional information on spray drift, refer to the Spray Drift Management section of the label.

Continuous agitation is required to keep MSM E-AG 60 EG Herbicide in suspension.

SPRAYER CLEANUP

Spray equipment must be cleaned before MSM E-AG 60 EG Herbicide is sprayed. Follow the cleanup procedures specified on the labels of previously applied products. If no directions are provided, follow the six steps outlined in After Spraying MSM E-AG 60 EG Herbicide section of this label.

At the End of the Day

When multiple loads of MSM E-AG 60 EG Herbicide herbicide are applied, it is recommended that at the end of each day of spraying, the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits that can accumulate in the application equipment.

After Spraying MSM E-AG 60 EG Herbicide and Before Spraying Crops Other than Wheat, Barley, Fallow, Pasture, or Rangeland

To avoid subsequent injury to desirable crops, thoroughly clean all mixing and spray equipment immediately following applications of MSM E-AG 60 EG Herbicide as follows:

1. Drain tank; thoroughly rinse spray tanks, boom, and hoses with clean water. Loosen and physically remove any visible deposits.
2. Fill the tank with clean water and 1 gal of household ammonia* (contains 3% active) for every 100 gal of water. Flush the hoses, boom, and nozzles with the cleaning solution. Then add more water to completely fill the tank. Circulate the cleaning solution through the tank and hoses for at least 15 min. Flush the hoses, boom, and nozzles again with the cleaning solution, and then drain the tank.
3. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
4. Repeat step 2.
5. Rinse the tank, boom, and hoses with clean water.
6. If only Ammonia is used as a cleaner, the rinsate solution may be applied back to the crop(s) recommended on this label. Do not exceed the maximum labeled use rate. If other cleaners are used, consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of the rinsate on site or at an approved waste disposal facility.

* Equivalent amounts of alternate-strength ammonia solution or an Etigra-approved cleaner can be used in the cleanout procedure. Carefully read and follow the individual cleaner instructions. Consult your agricultural dealer, applicator, or Etigra representative for a listing of approved cleaners.

Notes:

1. Attention: Do not use chlorine bleach with ammonia, as dangerous gasses will form. Do not clean equipment in an enclosed area.
2. Steam-cleaning aerial spray tanks is recommended prior to performing the above cleanout procedure to facilitate the removal of any caked deposits.
3. When MSM E-AG 60 EG Herbicide is tank mixed with other pesticides, all required cleanout procedures should be examined and the most rigorous procedure should be followed.
4. In addition to this cleanout procedure, all pre-cleanout guidelines on subsequently applied products should be followed as per the individual labels.
5. Where routine spraying practices include shared equipment frequently being switched between applications of MSM E-AG 60 EG Herbicide and applications of other pesticides to MSM E-AG 60 EG Herbicide sensitive crops during the same spray season, it is recommended that a sprayer be dedicated to MSM E-AG 60 EG Herbicide to further reduce the chance of crop injury.

SPRAY DRIFT MANAGEMENT

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

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (> 150-200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS! See, **Wind, Temperature and Humidity, and Temperature Inversions** section of this label.

Controlling Droplet Size – General Techniques

- **Volume** – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** – Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.
- **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.

Controlling Droplet Size – Aircraft

- **Number of Nozzles** – Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** – Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- **Nozzle Type** – Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- **Boom Length** – The boom length should not exceed 3/4 of the wing or rotor length- longer booms increase drift potential.
- **Application Height** – Application more than 10 ft above the canopy increases the potential for spray drift.

BOOM HEIGHT

Setting boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

WIND

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CONDITIONS.

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 hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature 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.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST)

FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the applications and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended applications, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

PRECAUTIONS

Injury to or loss of desirable tress or vegetation may result from failure to observe the following.

- Do not apply, drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- Do not use on lawns, walks, driveways, tennis courts, golf courses, athletic fields, commercial sod operations, or other high-maintenance, fine turfgrass areas, or similar areas.
- Do not use on grasses grown for seed.
- Do not apply to irrigated land where tailwater will be used to irrigate crops other than wheat and barley.
- Do not apply to frozen ground as surface runoff may occur.
- Do not apply to snow-covered ground.
- Wheat and barley varieties may differ in their response to various herbicides. Etigra recommends that you first consult your state experiment station, university, or extension agent as to sensitivity to any herbicide. If no information is available, limit the initial use of MSM E-AG 60 EG Herbicide to a small area.
- Under certain conditions such as heavy rainfall, prolonged cold weather, or wide fluctuations in day/night temperatures prior to or soon after MSM E-AG 60 EG Herbicide applications, temporary discoloration and/or crop injury may occur. MSM E-AG 60 EG Herbicide should not be applied to wheat or barley that is stressed by severe weather conditions, drought, low fertility, water-saturated soil, disease, or insect damage or crop injury may result. Risk of injury is greatest when crop is in the 2 to 5 leaf stage. Severe winter stress, drought, disease, or insect damage following application also may result in crop injury.
- The combined treatment effects of MSM E-AG 60 EG Herbicide postemergence preceded by preemergence wild oat herbicides may cause crop injury to spring wheat when crop stress (soil crusting, planting too deep, prolonged cold weather, or drought) causes poor seedling vigor.
- In the Pacific Northwest, to prevent cold weather-related crop injury, avoid making applications during winter months when weather conditions are unpredictable and can be severe.
- Do not apply to wheat, barley or pastures undersown with legumes, as injury to the forage may result.
- To reduce the potential for movement of treated soil due to wind erosion, do not apply to powdery dry or light sandy soils until they have been stabilized by rainfall, trashy mulch, reduced tillage, or other cultural practices. Injury to immediately adjacent crops may occur when treated soil is blown onto land used to produce crops other than cereal grains or pasture/rangeland.
- For ground applications applied to weeds when dry, dusty field conditions exist, control of weeds in wheel track areas may be reduced. The addition of 2,4-D or MCPA should improve weed control under these conditions.
- Preplant or preemergence applications of 2,4-D made within 2 weeks of planting spring cereals may cause crop injury when used in conjunction with early postemergence applications of MSM E-AG 60 EG Herbicide. For increased crop safety, delay MSM E-AG 60 EG Herbicide treatment until crop tillering has begun.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store product in original container only. Store in cool, dry place.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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