

SUPPLEMENTAL LABELING

Metcel™ VMF Herbicide

EPA Reg. No. 352-439-85588

FOR USE ON PASTURE AND RANGELAND

DIRECTIONS FOR USE

Metcel™ VMF Herbicide is recommended for the control of broadleaf weeds, brush and several woody vine species in forage grasses growing in pasture and rangeland.

Metcel™ VMF Herbicide may be tank mixed with other pesticides labeled for use in pasture and rangeland. Read and follow the labels on all products used in the tank mix. Observe the most restrictive precautions on each of the product's labels.

Application of Metcel™ VMF Herbicide to pasture and rangeland may be made by ground or air. Use a sufficient volume of water to ensure thorough coverage of the targeted weeds with the equipment being used. In Idaho, Oregon and Washington use a minimum application volume of 3 gallons of spray solution per acre.

APPLICATION INFORMATION FOR GRASS ESTABLISHMENT IN PASTURE AND RANGELAND

Metcel™ VMF Herbicide is recommended for the control or suppression of broadleaf weeds to aid in the establishment of the following perennial native or improved grasses planted in pasture and rangeland:

Blue Grama	Lovegrasses -	crested
Bluestems -	Atherstone	intermediate
Big	Sand	pubescent
Little	Weeping	Siberian
Plains	Wilman	slender
Sand	Orchardgrass	steambank
W W spar	Sideoats grama	tall
Buffalograss	Switchgrass -	thickspike
Green sprangletop	Blackwell	western
Kleingrass	Wheatgrasses -	Wildrye grass -
	bluebunch	Russian

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Maximize potential for grass establishment by consulting with the Natural Resource and Conservation Service of other government agencies or local experts concerning planting techniques and other cultural practices.

Performance from Metcel™ VMF Herbicide may not always be satisfactory due to the inability of newly planted grass stands to sufficiently compete with weeds, and the severity of weed pressure in new grass stands.

An additional herbicide application or mowing may be needed.

Use Rates and Application Timing for Grass Establishment in pasture and rangeland Preplant (prior to planting) or Preemergence (after planting but before grass emergence)

Do not use more than 1/10 ounce/acre of Metcel™ VMF Herbicide for grass establishment in pasture and rangeland.

Apply Metcel™ VMF Herbicide at 1/10 ounce/acre on all labeled grasses except orchardgrass and Russian wildrye grass. Do not apply Metcel™ VMF Herbicide preplant or preemergence to orchardgrass and Russian wildrye grass as severe crop injury may result.

Early postemergence to new plantings

Apply Metcel™ VMF Herbicide at 1/10 ounce/acre, plus a non-ionic surfactant at the rate of 2 to 4 pints/100 gallons of spray solution on all labeled grasses anytime after grass emergence.

Do not use a spray adjuvant other than non-ionic surfactant. Because grass species differ in time of emergence, apply only after the majority of grasses are in the 3 to 4 leaf stage.

Postemergence to stands with 1 – 5 leaf grasses planted the previous season

Apply Metcel™ VMF Herbicide at 1/10 ounce/acre plus a non-ionic surfactant at the rate of 2 to 4 pints/100 gallons of spray solution, on all labeled grasses when the majority of the grasses have one or more leaves.

Do not use a spray adjuvant other than non-ionic surfactant.

**APPLICATION INFORMATION FOR ESTABLISHED GRASSES
IN PASTURE AND RANGELAND**

Use Rates for Established Grasses in Pasture and Rangeland

Apply up to 1 ounce Metcel™ VMF Herbicide per acre as a broadcast application to established grasses in pasture and rangeland. For spot applications, use 1 ounce per 100 gallons of water. Do not apply more than 1 2/3 ounces of Metcel™ VMF Herbicide per acre per year.

Refer to the Weeds Controlled section of the section 3 label for a listing of the weeds controlled by Metcel™ VMF Herbicide and the appropriate use rate to obtain control.

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Application Timing – Established Grasses in Pasture and Rangeland

Metcel™ VMF Herbicide may be applied to established native grasses such as bluestems and grama, and on other established grasses such as bermudagrass, bluegrass, orchardgrass, bromegrass, fescue and timothy that were planted the previous growing season (or earlier) and are fully tillered, unless otherwise directed on this label. Specific application timing information on several of these grass species follows:

<u>Grass</u>	<u>Minimum time from Grass establishment Metcel™ VMF Herbicide application</u>
Bermudagrass	2 months
Bluegrass, bromegrass, Orchardgrass	6 months
Timothy	12 months
Fescue	24 months

Fescue Precautions:

Note that Metcel™ VMF Herbicide may temporarily stunt tall fescue, cause it to turn yellow, or cause seedhead suppression. To minimize these symptoms, take the following precautions:

- Do not use more than 4/10 ounce/acre of Metcel™ VMF Herbicide
- Tank mix Metcel™ VMF Herbicide with 2,4-D
- Use the lowest recommended rate for target weeds
- Use a non-ionic surfactant at 1/2 to 1 pint per 100 gallons of spray solution
- 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
- Do not use a spray adjuvant other than non-ionic surfactant

The first cutting yields may be reduced due to seedhead suppression resulting from treatment with Metcel™ VMF Herbicide.

Timothy Precautions:

Timothy should be at least 6 inches tall at application and be actively growing. Applications of Metcel™ VMF Herbicide to timothy under any other conditions may cause crop yellowing and/or stunting. To minimize these symptoms, take the following precautions:

- Do not use more than 4/10 ounce/acre Metcel™ VMF Herbicide
- Tank mix Metcel™ VMF Herbicide with 2,4-D
- Use the lowest recommended rate for target weeds
- Use a non-ionic surfactant at 1/2 pint per 100 gallons of spray solution (1/16%)
- Make applications in the late summer or fall
- Do not use surfactant when liquid nitrogen is used as a carrier
- Do not use spray adjuvant other than non-ionic surfactant

Application of Metcel™ VMF Herbicide to Pensacola bahiagrass, ryegrass (Italian or perennial) and Garrison’s creeping foxtail may cause severe injury to and/or loss of forage.

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Other Pasture and Rangeland Grasses

Varieties and species of forage grasses differ in their tolerance to herbicides. When using Metcel™ VMF Herbicide on a particular grass for the first time, limit use to a small area. In no injury occurs throughout the season, larger acreage may be treated the following season.

Broadleaf forage species, such as alfalfa and clover, are highly sensitive to Metcel™ VMF Herbicide and will be severely stunted or injured by Metcel™ VMF Herbicide.

SPOT TREATMENTS

Metcel™ VMF Herbicide is recommended for use as spot treatment to control noxious and troublesome weeds on pasture, rangeland, non-crop areas, such as, roadsides and industrial sites including government and private lands.

Application Information

Metcel™ VMF Herbicide is recommended to control many species of weeds, including noxious weeds, in certain established grasses growing on non-crop areas and forage grasses growing on pasture and rangeland. Refer to the "Weeds Controlled" section of the package label or supplemental labeling for a listing of susceptible weed species. If the sprayer is calibrated, consult the package label or other supplemental labeling to select the application rate per acre of Metcel™ VMF Herbicide appropriate for the target weeds. Or mix one gram of Metcel™ VMF Herbicide per one gallon of water along with a suitable surfactant. Spray to the point of wetting the entire surface of the target weeds, approximately 40 gallons of solution per acre. When applied in this manner there is no grazing restrictions following the use of Metcel™ VMF Herbicide. Applications may be made at anytime of the year, except when the soil is frozen.

CROP ROTATION

Before using Metcel™ VMF Herbicide, carefully consider your crop rotation plans and options. For rotational flexibility, do not treat all of your pasture, rangeland or CRP acres at the same time.

Minimum Rotational Intervals

Minimum rotation intervals* are determined by the rate of breakdown of Metcel™ VMF Herbicide applied. Metcel™ VMF 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 Metcel™ VMF Herbicide breakdown in soil, while high soil pH, low soil temperature, and low soil moisture slow Metcel™ VMF 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.

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Location	Crop or Grass Species	Maximum Metcel™ VMF 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, ryegrass, tall fescue	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 STATES NOT INCLUDED ABOVE	Red clover, white clover, and sweet clover	1/10 to 2/10	12
	Bermudagrass, bluegrass, ryegrass	1/10 to 2/10	6
	Tall 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
ALL AREAS WITH SOIL pH of 7.5 OR LESS	Russian wildrye	1/10 to 1/2	1
	Green needlegrass, switchgrass, sheep fescue	1/10 to 1	1
	Meadow brome, smooth brome, alta fescue, red fescue, meadow foxtail, orchardgrass, Russian wildrye, timothy	1/10 to 1	2
ALL AREAS WITH SOIL pH of 7.9 OR LESS	Alkali sacaton, mountain brome, blue grama, thickspike wheatgrass	1/10 to 1	1
	Sideoats grama, switchgrass	1/10 to 1/2	2
	Western wheatgrass	1/10 to 1	2
	Sideoats grama, switchgrass, big bluestem	1/10 to 1	3

Soil pH Limitations

Metcel™ VMF 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, Metcel™ VMF 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 Metcel™ VMF Herbicide.

Checking Soil pH

Before using Metcel™ VMF 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 local extension publications for additional information on recommended soil sampling procedures.

BIOASSAY

A field bioassay must be completed before rotating to any crop or grass species/variety not listed in 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.

To conduct a field bioassay, grow test strips of the crop(s) or grass(es) you plan to grow the following year in fields previously treated with Metcel™ VMF Herbicide. Crop or grass response to the bioassay will indicate whether or not to rotate to the crop(s) or grass(es) grown in the test strips.

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

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GRAZING/HAYING

When used as directed, there is no grazing or haying restriction for use rates of 1 2/3 ounces per acre and less.

Coveralls, shoes plus socks must be worn if cutting within 4 hours of treatment.

IMPORTANT PRECAUTIONS

- Do not apply more than 1 2/3 ounces of Metcel™ VMF Herbicide per acre per year on pasture or rangeland.
- Grass species or varieties may differ in their response to various herbicides. Agsurf 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 Metcel™ VMF Herbicide to a small area. Components in a grass seed mixture will vary in tolerance to Metcel™ VMF Herbicide so the final stand may not reflect the seed ratio.
- Under certain conditions such as heavy rainfall, high pH, prolonged cold weather, or wide fluctuations in day/night temperatures prior to or soon after Metcel™ VMF Herbicide application, temporary discoloration and/or grass injury may occur. Metcel™ VMF Herbicide should not be applied to grass that is stressed by severe weather conditions, drought, low fertility, water-saturated soils, disease, or insect damage as grass injury may result. Severe winter stress, drought, disease, or insect damage before or following application also may result in grass injury.
- Applications of Metcel™ VMF Herbicide to pasture and rangeland undersown with legumes may cause injury to the legumes. Legumes in a seeding mixture may be severely injured or killed following an application of Metcel™ VMF Herbicide.
- Applications made to some established grasses may cause temporary stunting, yellowing or seedhead suppression (i.e. fescue, timothy).
- Applications made to newly established grasses less than 2 years from seeding may result in injury or loss.
- Do not apply to forage grasses known to be sensitive to Metcel™ VMF Herbicide such as ryegrass (Italian and perennial), bahia or Garrison's creeping foxtail.
- Broadleaf forage species, such as alfalfa and clover, are highly sensitive to Metcel™ VMF Herbicide and will be severely injured or killed.
- The control of weeds in wheel track areas may be reduced if ground applications are made when dry, dusty field conditions exist. The addition of 2,4-D or MCPA should improve weed control under these conditions.
- Do not use this product in the following counties of Colorado: Saguache, Rio Grande, Alamosa, Costilla and Conejos.
- Do not use this product in California.

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IMPORTANT NOTICE BEFORE BUYING OR USING THE AGSURF PRODUCT COVERED BY THIS LABEL, READ THIS LABEL AND THE LABELS FOR ALL PRODUCTS REFERENCED IN THIS LABEL, IN THEIR ENTIRETY. FOLLOW ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS.

This label contains supplemental instructions for use of the referenced Agsurf product. Follow these instructions carefully. This label must be in the possession of the user at the time of application.

Read the Limitation of Warranty and Liability on the Section 3 Federal product label before buying or using THIS product. If terms are not acceptable, return the unopened package at once to Seller for full refund of purchase price paid. Otherwise, use by Buyer or any other User constitutes acceptance of the terms of the Limitation of Warranty and Liability on the Section 3 Federal product label.

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