



# HELMET<sup>®</sup> MTZ

herbicide

## For early-season weed control in soybeans and potatoes

Helmet<sup>®</sup> MTZ gets to work early in the season to control resistant weeds like waterhemp and pigweed. With extended residual activity in potatoes, Helmet MTZ also offers flexibility for an in-season herbicide application.

Helmet MTZ's two proven modes of action provide excellent control of many broadleaf weeds and grasses, including those resistant to glyphosate, PPO and ALS herbicides.



### Product Specifications

<b>Brand Name</b>	Helmet <sup>®</sup> MTZ
<b>Category</b>	Herbicide
<b>Active Ingredients</b>	Metolachlor + Metribuzin
<b>Crops</b>	Soybeans, potatoes
<b>Site of Action</b>	Group 15 / Group 5
<b>Formulation</b>	Suspension concentrate
<b>AI/Gallon</b>	Metolachlor 5.25 lb a.i./gal Metribuzin 1.25 lb a.i./gal
<b>Application</b>	Preemergence, postemergence (potatoes only)
<b>Rates</b>	1.2 - 3.6 pt/A (see label for rates by crop and soil texture)
<b>Weed Spectrum</b>	Broadleaf and grass species
<b>Signal Word</b>	Warning

### Performance Benefits

- Early-season control of resistant weeds.
- Residual activity broadens post-application window, allowing more flexibility for in-season herbicide application.
- Multiple modes of action provide excellent control of many broadleaf weeds and grasses.
- Compatible with a number of preemergence herbicides in conventional and Roundup Ready<sup>®</sup> systems.



SOYBEANS



POTATOES



<b>REI</b>	24 hours
<b>PHI</b>	See label by crop
<b>Restricted Use</b>	No
<b>Packaging</b>	2 x 2.5 gal 270 gal tote
<b>EPA #</b>	74530-98

## CROPS

Soybeans  
Potatoes

## PRIMARY WEEDS CONTROLLED (OR SUPPRESSED)

Barnyard Grass, Black Nightshade, Bluegrass, Bristly Starbur, Broadleaf Signalgrass, Carpetweed, Copperleaf (hophornbeam), Crabgrass, Crowfootgrass, Florida Beggarweed, Florida Pusley, Foxtails, Galinsoga, Goosegrass, Jimsonweed, Johnsongrass (seedling), Junglerice, Knotweed, Lambsquarters, Nutsedge (yellow), Panicum (fall), Pigweeds, Prickly Sida/Teaweed, Purslane, Redweed, Russian Thistle, Sesbania, Shepherdspurse, Sicklepod, Smartweeds, Spotted Spurge, Spurred Anoda, Venice Mallow, Wild Mustards, Witchgrass

## APPLICATION RATES AND GUIDELINES – SOYBEANS

### Conventional Tillage Systems (Broadcast)

Soil Texture	0.5 to 3.0% Organic Matter (pt/A)	Over 3% Organic Matter <sup>2</sup> (pt/A)
<b>Coarse<sup>1</sup></b> (loamy sand, sandy loam)	1.2-1.5 <sup>3</sup>	1.5-1.8
<b>Medium</b> (loam, silt loam, silt, sandy clay, sandy clay loam)	1.8-2.1	2.1-2.4
<b>Fine</b> (silty clay, silty clay loam <sup>4</sup> , clay, clay loam)	2.4-2.7	2.4-3.0

<sup>1</sup> Do not use on sand soils. On coarse-textured soils, do not use on loamy sand soils with less than 2% organic matter.  
<sup>2</sup> For preplant incorporated application, use the lower rate.  
<sup>3</sup> Helmet MTZ is recommended for use as a preplant incorporated or preemergence application in coarse-textured, low organic matter soils in these states: AL, AR, FL, GA, LA, MS, MO, NC, OK, SC, TN, TX and VA.  
<sup>4</sup> Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S. When using Helmet MTZ, treat this soil as "fine-textured."

### Preemergence (Broadcast)

Soil Texture	Organic Matter	pt/A
<b>Coarse</b> (sand <sup>1</sup> , loamy sand, sandy loam)	0.5% or above	1.2-2.1 <sup>2</sup>

<sup>1</sup> Not recommended for use on sand with less than 1% organic matter.  
<sup>2</sup> Use the higher rate under heavy weed presures and/or on soils higher in organic matter. For maximum control of sicklepod, use a preemergence application.

## APPLICATION RATES AND GUIDELINES – POTATOES

### Preemergence

Apply with ground spray equipment, aerial spray equipment, or by center pivot irrigation equipment which is capable of making a uniform broadcast application. Apply after planting but before crop emergence, or apply after drag-off if this operation is part of the usual cultural practice.

Soil Texture	0.5 to 3.0% Organic Matter (pt/A)	Over 3% Organic Matter (pt/A)
<b>Coarse<sup>1</sup></b> (sand, loamy sand, sandy loam)	1.5-2.0	2.0-2.4
<b>Medium or Fine</b> (loam, silt loam, silt, sandy clay, sandy clay loam, silty clay, silty clay loam, clay, clay loam)	2.4-2.75	2.75-2.9

<sup>1</sup> On soils that classify as a "sand" texture, do not use more than 1.5 pt/A of Helmet MTZ, or more than 0.5 lb a.i./A of metribuzin in total, or crop injury may occur.

### Postemergence

Apply post-emergence only in center pivot irrigation water, after drag-off if that is a usual cultural practice, but not closer than 60 days before harvest.

Soil Texture	0.5% Organic Matter and Above (pt/A)
<b>Coarse<sup>1</sup></b> (sand, loamy sand, sandy loam)	1.5
<b>Medium or Fine</b> (loam, silt loam, silt, sandy clay, sandy clay loam, silty clay, silty clay loam, clay, clay loam)	1.5-2.2

<sup>1</sup> Crop injury may occur on soils that classify as a "sand" texture and have less than 0.5% organic matter.

## USE RESTRICTIONS – POTATOES

- Two applications may be applied per year. For potatoes grown in soils with organic matter between 3% and 10%, do not apply more than 5.1 pints (3.35 lb a.i. metolachlor) per acre per year; in soils with organic matter between 0.5% and 3.0%, do not apply more than 4.95 pints (3.25 lb a.i. metolachlor) per acre per year. Do not apply more than 1.0 lb a.i. of metribuzin per acre per year. Helmet MTZ is not recommended for application to muck or peat soils.
- Do not apply Helmet MTZ postemergence if the weather in the next 3 days is predicted to be cool, wet or cloudy, as crop injury may occur.
- Do not harvest within 60 days of the last Helmet MTZ application.
- Do not apply after June 30 in Idaho, Oregon, or Washington if the treated land will be planted to a crop other than potatoes in the fall.
- Do not apply Helmet MTZ to sweet potatoes or yams.
- Do not apply Helmet MTZ as a preplant incorporated application in potatoes, or crop injury may occur.
- Do not use Helmet MTZ on potatoes in Kern County, California.



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