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The Journey Forward

2008 FMC Sugarcane Product Update

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Command 3ME Sugarcane

- Late summer / early fall to newly planted cane
- Preemergent in spring through layby to newly planted or ratoon cane
- Rate: 1.0 to 1.25 lb ai/a (2.67 to 3.33 pt/a)
- Do not apply more than 1.25 lb ai/a per season
- 120 day PHI



AIM EC / Sugarcane Product Profile

- Broad spectrum for broadleaf weeds
- Contact herbicide (coverage essential)
- Adjuvant needed (NIS / COC)
- Rainfast in one hour
- Pre Plant Burndown
- Hooded Spray Application
 - Rates up to 0.031 lb ai/a (2.0 oz/a)
 - Not to exceed 0.96 lb ai/a (6.6 oz/a) per season
- 0 day PHI

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Mustang Max / Sugarcane

- Provides control of sugarcane and Mexican rice borer.
- Apply as needed based on pest thresholds.
- Use rate: 3-4 oz/a not to exceed 16 oz per season
- 21 day preharvest interval (PHI).



Furadan 4F / Sugarcane

- LA 24(c) wireworm at-plant at 1 qt/a
- 2(ee) sugarcane aphid at 1.0 – 1.5 pt/a
 - » No more the 2 applications per season
 - » 17 day PHI



Spartan 4F Sugarcane

- Received Section 3 in fall 2004
- Preemergent through layby to newly planted or ratoon cane
- Rate: 4.5 to 12 oz/a (0.14 to 0.375 lb ai/a)
- Do not apply more than 12 oz/a (0.375 lb ai/a) per season
- 120 day PHI



Spartan 4F Use Rate Table (Sugarcane)
 Planting Time and Lay-by Application

Broadcast Rate	Ounces Spartan 4F per acre		
	Soil Texture		
% Organic Matter	<u>Coarse</u>	<u>Medium</u>	<u>Fine</u>
<1.0	4.5 – 6.0	6.0 – 8.0	8.0
1.0-3	6.0 – 8.3	8.0 – 10.1	10.1
>3	8.0 – 10.1	10.1 – 12.0	12.0

Use higher rates for soils of pH less than 7.0 and lower rates for pH greater than 7.0 within the rate range.





Spartan 4F *Sugarcane*



- Amaranth (palmer, spiny, spleen)
- Spurred Anoda
- Copperleaf
- Eclipta
- Groundcherry
- Jimsonweed
- Lanbsquarters
- Morningglory spp. (red)
- Nightshade spp.
- Pigweed (redroot, smooth)
- Prickly Sida
- PA Smartweed
- Waterhemp (common, tall)
- Nutsedge (yellow, purple)
- Annual Sedge
- Barnyardgrass*
- Crabgrass spp.*
- Foxtail spp.*
- Goosegrass*
- Panicum, fall*
- Broadleaf Signalgrass*

* Partial control (71% - 84%)



HERBICIDE

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Authority MTZ



- New soil applied herbicide for at-plant / layby for sugarcane.
- Unique combination of 2 long-trusted and valuable weed control tools.
 - Sulfentrazone (Authority, Spartan,)
 - Metribuzin (Sencor, Lexone)
- Sulfentrazone/metribuzin premix
 - 1:1.5 ratio, 45% DF formulation



Authority MTZ

Use Rate Program – Sugarcane

At-plant, Lay-by

Broadcast Rate (Oz/Acre)	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
1-2%	16-20	20-26	26-30
2-4%	20-26	26-30	30-33

Use higher rates for soils of pH less than 7.0 and lower rates for pH greater than 7.0 within the rate range.



Product composition by rates

Equivalent Product Mix Chart

Authority MTZ 45DF	Sulfentrazone	Spartan 4F	Metribuzin	Metribuzin 75 DF
oz/A	lb ai/A	oz/A	lb ai/A	oz/A
20	0.23	7.4	0.34	7.3
22	0.25	8.0	0.37	7.9
24	0.27	8.6	0.41	8.7
26	0.29	9.3	0.44	9.4
28	0.32	10.2	0.47	10.0
30	0.34	10.9	0.51	10.9
32	0.36	11.5	0.54	11.5
33	0.37	11.9	0.56	11.9



Broadleaf Weed Control & Suppression



- **BROADLEAVES**

- Amaranth, Palmer
- Amaranth, spiny
- Mustard spp.
- Nightshade, eastern black
- Nightshade, hairy
- Nightshade, silverleaf
- Pigweed:
 - Redroot
 - Smooth
 - Tumble
 - Poorjoe
- Purslane, common
- Pusley, Florida
- Ragweed, common
- Senna, coffee
- Sesbania, hemp
- Sida, prickly (Teaweed)
- Smartweed, Pennsylvania
- Smellmelon
- Spurge, spotted
- Starbur, bristly
- Velvetleaf
- Waterhemp, common
- Waterhemp, tall
- Anoda, spurred
- Beggarweed, Florida
- Carpetweed
- Cocklebur, common
- Copperleaf, Hophornbeam
- Henbit
- Chickweed, common





Broadleaf Weed Control & Suppression



- **BROADLEAVES**

- Croton, tropic
- Daisy, American
- Dayflower, common
- Galinsoga, hairy
- Groundcherry, clammy
- Groundcherry, cutleaf
- Horseweed (Marestail)
- Jimsonweed
- Kochia
- Ladysthumb
- Lambsquarters, common
- Sheperdspurse
- Mexicanweed
- Morningglory:
 - Entireleaf
 - Ivyleaf
 - Palmleaf
 - Pitted*
 - Purple
 - Red
 - Smallflower
 - Tall
- Prickly lettuce
- Deadnettle, purple

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Grass Weed Control

- **Grasses** (Suppression Only)

- Broadleaf signalgrass
- Crabgrass, large
- Crabgrass, smooth
- Goosegrass
- Johnsongrass, seedling
- Orchardgrass
- Panicum, fall
- Panicum, Texas

- **Sedges**

- Nutsedge, yellow
- Nutsedge, purple
- Sedge, annual





Authority MTZ Packaging

4 x 6.5 lb/case



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Rotational Crop Guidelines

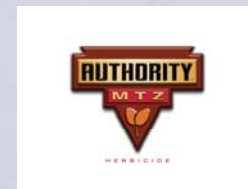


<i>Crop</i>	<i>Interval (months)</i>
Alfalfa	12
Barley	4
Canola	24
Corn, field *	10, 4
Corn, pop *	10
Corn, seed *	10
Corn, sweet	18
Cotton	18
Dry beans	12

<i>Crop</i>	<i>Interval (months)</i>
Peanuts	12
Potatoes	12
Rice	10
Sugarcane	0
Sorghum	12
Soybeans	0
Sugarbeets	36
Sunflower	12
Tobacco	12
Wheat	4



Restrictions



- Do not apply within 120 days of harvest.
- Do not graze treated fields or harvest for forage or hay.
- Do not apply more than 33.0 oz per acre of Authority MTZ per twelve month season.



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Questions??

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