

Supplemental Labeling



EPA Reg. No. 279-3464

This supplemental label expires on 3/4/2023 and must not be used or distributed after this date.

For weed control in corn, cotton, dry/field peas, chickpeas, lentils, fallow, peanuts, soybeans, sunflowers, and wheat.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA REGISTERED LABEL ARE TO BE FOLLOWED.

This Supplemental labeling must be in the possession of the user at the time of pesticide application. Read the label affixed to the container before applying. Carefully follow all precautionary statements and application use directions.

ACTIVE INGREDIENT CONVERSION TABLE (FL OZ ANTHEM FLEX HERBICIDE TO LB AI EQUIVALENT)

For the designated application rates of ANTHEM FLEX herbicide found in this label, refer to the table below for active ingredient equivalents.

Table 4.

ANTHEM FLEX HERBICIDE	ACTIVE INGREDIENT EQUIVALENT	
	Pyroxasulfone (Lb ai/A)	Carfentrazone-ethyl (Lb ai/A)
1.27	0.037	0.003
1.36	0.040	0.003
1.82	0.053	0.004
2.25	0.066	0.005
2.5	0.073	0.005

Sold By



FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104

Net Contents: 1 Gallon

SL-4337 031320 030620

ANTHEM FLEX HERBICIDE	ACTIVE INGREDIENT EQUIVALENT	
	Rate (oz/A)	Pyroxasulfone (Lb ai/A)
2.7	0.079	0.006
2.73	0.080	0.006
2.75	0.080	0.006
2.8	0.082	0.006
3	0.087	0.006
3.25	0.095	0.007
3.64	0.106	0.008
3.8	0.111	0.008
4	0.117	0.008
4.5	0.131	0.009
4.55	0.133	0.009
5	0.146	0.010
5.25	0.153	0.011
5.46	0.159	0.011
5.5	0.160	0.011
6	0.175	0.013
6.4	0.187	0.013
6.5	0.190	0.014
7.28	0.212	0.015
7.3	0.213	0.015
7.6	0.222	0.016
9.12	0.266	0.019

CORN Early Preplant

Table 5. ANTHEM FLEX herbicide application rates for early preplant applications greater than 15-45 days ahead of planting in field corn (grown for grain, seed and silage)

Early preplant	ANTHEM FLEX herbicide fl oz/A		
	Coarse	Medium	Fine
15-45 days prior to planting	3.5 – 4.5	4.5 – 5.5	5.0 – 7.28

PREPLANT/PREEMEREGNCE APPLICATION RATES

Table 6. ANTHEM FLEX herbicide application rates for field corn (grown for grain, seed and silage) sweet corn and popcorn including sweet corn and popcorn grown for seed. Apply from 14 days preplant up to prior to spike stage corn.

Organic Matter	ANTHEM FLEX herbicide fl oz/A		
	Coarse Excluding Sweet Corn	Medium Excluding Sweet Corn at 2.0% O.M. or less	Fine
Less than 1%	2.75 – 3.5	3.0 – 4.5	3.5 – 4.5
1 to 3%	3.0 – 4.0	3.5 – 5.5	4.5 – 6.0
Greater than 3%	4 – 5.0	4.5 – 6.0	5.5 – 7.28

- Use rates listed above are for control or suppression of weeds listed in Table 1.
- Before applying ANTHEM FLEX herbicide to sweet corn, popcorn, or seed corn, check with your local seed supplier to verify the selectivity on any inbred lines or hybrids to avoid any possible injury.
- For early preplant applications and/or in reduce tillage (i.e. no-till/ high residue) systems or heavy weed pressure use the higher labeled rate by the soil type.
- For preplant burndown of emerged weeds, tank-mix another herbicide such as 2,4-D, dicamba, glyphosate, atrazine or similar for increased levels of weed control.
- Corn seed must be planted a minimum of 1.5 inches deep. Shallow planting can lead to increased crop response risk.
- Early preplant surface applications are not recommended for coarse textured soils, in areas where annual rainfall (or rainfall plus irrigation) typically exceeds 40 inches, or for popcorn or sweet corn.

For control/suppression of additional weed species or for increased control of troublesome weeds, ANTHEM FLEX herbicide may be used in combination with other labeled corn herbicides including:

Product	Weed species
Balance® Flexx (EPA Reg. No. 264-1067, Isoxaflutole) Callisto (EPA Reg. No.100-1131, Mesotrione)	Velvetleaf, Kochia, Lambsquarters, Common and Giant Ragweed, Pigweeds, Waterhemp, Pennsylvania smartweed, Nightshade.
Atrazine	Cocklebur, Giant and Common ragweeds, Nightshade, Kochia (non-triazine resistant) Morningglory, Pigweeds, Russian thistle, Lambsquarters
Hornet (EPA Reg. No. 62719-315, Clopyralid + Flumetsulam)	Cocklebur, Sunflower, Velvetleaf, Common and Giant Ragweed, Pennsylvania smartweed, Morningglory, Pigweeds, Lambsquarters

- Under heavy weed pressure, a sequential program of ANTHEM FLEX herbicide followed by an effective post emergence herbicide treatment or cultivation may be required for satisfactory weed control.

POSTEMERGENCE APPLICATION RATES

Table 7. ANTHEM FLEX herbicide application rates for field corn (grown for grain, seed and silage), sweet corn and popcorn including sweet corn and popcorn grown for seed.

ANTHEM FLEX herbicide fl oz./A		
Coarse (Excludes sweet corn)	Medium Excludes sweet corn at 2.0% O.M. or less	Fine
2.25 – 4.5	3.5 – 5.25	4.0 – 6.5

- Use rates listed above are for residual control on the weed control list (Table 1).
- Apply from emergence through V4 stage corn.
- For heavy weed densities and longer residual use the higher labeled rate by the soil type.
- For improved performance, ANTHEM FLEX herbicide may be tank-mixed with other herbicides such as atrazine, dicamba or other appropriate post-emergence herbicides. Applications to weeds larger than specified in Table 2 can result in unsatisfactory control.

Crop-Specific Restrictions

• **On coarse textured soils -**

- **DO NOT** apply more than a total of 5.0 fluid ounces of ANTHEM FLEX herbicide (containing 0.147 lb ai of pyroxasulfone and 0.011 lb ai of carfentrazone-ethyl) per acre per year.

• **On medium soils -**

- **DO NOT** apply more than 5.5 fluid ounces of ANTHEM FLEX herbicide (containing 0.160 lb ai of pyroxasulfone and 0.011 lb ai of carfentrazone-ethyl) in a single application.
- **DO NOT** apply more than 9.12 fluid ounces of ANTHEM FLEX herbicide (containing 0.266 lb ai of pyroxasulfone and 0.019 lb ai of carfentrazone-ethyl) per acre per year.

• **On fine soils -**

- **DO NOT** apply more than 7.28 fluid ounces of ANTHEM FLEX herbicide (containing 0.212 lb ai of pyroxasulfone and 0.015 lb ai of carfentrazone-ethyl) in a single application.
- **DO NOT** apply more than 9.12 fluid ounces of ANTHEM FLEX herbicide (containing 0.266 lb ai of pyroxasulfone and 0.019 lb ai of carfentrazone-ethyl) per acre per year.

- **DO NOT** apply ANTHEM FLEX herbicide for sweet corn on coarse textured soils or on any medium soils with less than 2.0% organic matter.
- **DO NOT** apply more than 0.266 lb ai/A of pyroxasulfone or 0.031 lb ai/A of carfentrazone-ethyl per acre in a year including preplant burndown. ANTHEM FLEX herbicide may be used prior to or after applications of other pyroxasulfone or carfentrazone-ethyl containing herbicides. When using ANTHEM FLEX herbicide in sequential programs, do not exceed the maximum amount of either active ingredient per year for the soil textures as specified above.
- **DO NOT** exceed the maximum amount of either active ingredient per year for the soil textures as specified above.
- **DO NOT** apply ANTHEM FLEX herbicide more than two times in corn per year when using labeled rates less than the maximum total per year.
- **DO NOT** apply ANTHEM FLEX herbicide within 14 days of a previous application of ANTHEM FLEX herbicide.
- **DO NOT** apply within 3 days of harvest.

COTTON

Application Rates

Application rates for ANTHEM FLEX herbicide when applied alone, in tank mix, or sequentially in cotton are provided in **Table 8**.

Table 8. Residual Rates of ANTHEM FLEX herbicide in Cotton

Application Timing	Use Rate by Soil Texture ¹ ANTHEM FLEX herbicide fl oz/A		
	Coarse	Medium	Fine
Postemergence - Directed - Early and Lay-by	1.365 - 2.73	1.365 - 2.73	2.73 - 3.80

¹ Refer to Table 3 for definitions of soil texture groups.

Crop-Specific Restrictions

• On medium soils -

- **DO NOT** apply more than 2.73 fluid ounces of ANTHEM FLEX herbicide (containing 0.079 lb ai of pyroxasulfone and 0.006 lb ai of carfentrazone-ethyl) in a single application.
- **DO NOT** exceed 5.46 fluid ounces of ANTHEM FLEX herbicide (containing 0.158 lb ai of pyroxasulfone and 0.012 lb ai of carfentrazone-ethyl) from all application timings in a year.

• On fine soils -

- **DO NOT** apply more than 3.8 fluid ounces of ANTHEM FLEX herbicide (0.111 lb ai of pyroxasulfone and 0.008 lb ai of carfentrazone-ethyl) in a single application.
- **DO NOT** apply more than 7.6 fluid ounces of ANTHEM FLEX herbicide (containing 0.0223 lb ai of pyroxasulfone and 0.159 lb ai of carfentrazone-ethyl) per year cumulative from all applications.
- **DO NOT** apply more than 0.025 lb active ingredient of carfentrazone-ethyl per application or 0.124 lb active ingredient per year.

• Seedling Depth: Crop seeds must be planted a minimum of 1 in. deep.

• Pre-harvest Interval: Do not harvest for a minimum of 7 days after the last application.

• The minimum re-treatment interval is 14 days.

Crop-Specific Instructions and Precautions

- Rainfall and/or irrigation totaling at least 0.5 inch prior to weed emergence may be necessary for herbicide activation and optimum weed control. If no rain occurs within 7 days after application, apply overhead irrigation if available, at 0.5 to 0.75 inches of precipitation. Use a maximum of 0.5 inch on coarse textured soils and a maximum of 1.0 inch on medium and fine textured soils.
- Excessive rainfall, irrigation, or prolonged cool and/or wet soil conditions after application of ANTHEM FLEX herbicide from seed germination through seedling emergence may increase the risk of cotton seedling injury and needs to be avoided if possible.
- Before applying to cotton, verification of ANTHEM FLEX herbicide selectivity on your variety must be confirmed to avoid injury to sensitive cotton varieties. Check with the local Cooperative Extension agent for information on potential ANTHEM FLEX herbicide varietal sensitivity. If variety sensitivity is unknown, such as with new varieties, apply ANTHEM FLEX herbicide on a small area to confirm variety safety before use on large acreage.

Application Timings

ANTHEM FLEX herbicide may be applied in a single application or in sequential applications.

DO NOT apply ANTHEM FLEX herbicide directly to cotton as a broadcast postemergence spray after emergence (at-cracking) or injury may occur.

POSTEMERGENCE-DIRECTED - EARLY AND LAY-BY APPLICATION

ANTHEM FLEX herbicide is a contact plus residual herbicide for postemergence directed sprayer or hooded/shielded sprayer applications for the control of broadleaf weeds in cotton. Apply **ANTHEM FLEX herbicide** alone or as a tank mixture with other herbicides to emerged and actively growing weeds. For specific mixing instructions, refer to the Mixing and Loading Instructions under the PRODUCT INFORMATION section. Applications of **ANTHEM FLEX herbicide** must be made with directed sprayers or hooded sprayers to prevent contact of spray solution with foliage, green stem tissue, or blooms. **DO NOT** allow spray solution to contact cotton foliage, green stem tissue, or blooms. Directed spray equipment must position nozzles a minimum 3 to 4 inches above the soil, with nozzles directed beneath the crop canopy. **ANTHEM FLEX herbicide** tank mix applications shall be made to cotton that is a minimum of 6 inches in height. Applications to cotton at 5 to 6 nodes or less must be made with hooded or shielded sprayer equipment to completely avoid contact with cotton plants. Apply lay-by applications of **ANTHEM FLEX herbicide** tank mixtures at later growth stages of cotton when cotton plants have achieved a height of 12 inches or more with sufficient bark development and height differential between crop bottom leaves and the soil. Spray solution shall be directed at the base of cotton plants for minimal contact with green stem tissue or foliage while maintaining maximum contact with broadleaf weeds that are at appropriate treatment size. **DO NOT** apply when conditions favoring drift exist or wind is above 10 mph. For control of emerged weeds, weeds larger than listed in Table 2, or for weeds not covered on this label, a tankmix partner is required. Coverage is essential for good control. The use of an adjuvant is recommended for consistent control.

Crop-Specific Post-Directed Precautions

Under high moisture conditions the crop may experience some temporary crop response. The crop will rapidly outgrow these effects and develop normally with no reduction in yield.

FALLOW

ANTHEM FLEX herbicide may be used as a residual treatment to control weeds listed at any time of the year during the fallow period following crop harvest and before the following crop is planted.

Follow all rotational crop planting intervals listed on Table 16.

Apply ANTHEM FLEX herbicide as a broadcast spray at 2.5-7.28 fluid ounces per acre (0.073 – 0.212 lb ai/A of pyroxasulfone/0.005 – 0.015 lb ai/A of Carfentrazone-ethyl) .

The minimum of re-treatment interval is 30 days, but **DO NOT** exceed the maximum annual cumulative amount of 9.1 oz/A (0.285 lb active ingredient) of ANTHEM FLEX herbicide per year.

Tank Mixes.

For control of emerged weeds, weeds larger than listed on Table 2, and weeds not listed on the label, a tankmix partner is required. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

PEANUT POSTEMERGENCE APPLICATION RATES

Table 9. ANTHEM FLEX herbicide application rates for Peanuts

Organic Matter	ANTHEM FLEX herbicide fl oz/A		
	Coarse	Medium	Fine
Less than 3%	2.7 – 4.0	2.7 – 4.0	2.7 – 4.0
Greater than 3%	2.7 – 4.0	2.7 – 4.0	2.7 – 4.0

- Use rates listed above are for control or suppression of weeds listed in Table 1.
- Peanut seed must be planted a minimum of 1.0 inches deep. Shallow planting can lead to increased crop injury risk.
- Check with your local seed company before applying ANTHEM FLEX herbicide to peanuts, regarding the sensitivity of that variety to ANTHEM FLEX herbicide to avoid potential injury.

POSTEMERGENCE APPLICATIONS:

- ANTHEM FLEX herbicide may be applied postemergence to peanuts from at cracking to first leaf stage through beginning pod development.
- Apply broadcast over top of the crop or directed to soil surface. The use of an adjuvant is advised for consistent postemergence control.
- Postemergence applications of ANTHEM FLEX herbicide are for residual control of weeds emerging later. ANTHEM FLEX herbicide can provide some postemergence activity on small, newly emerging seedling broadleaf weeds listed in Table 2, but weeds larger than listed in Table 2 or other emerged weeds will require a tank-mix partner for adequate control.
- ANTHEM FLEX herbicide may be applied with other peanut postemerge herbicides for improved weed control. When tank-mixing ANTHEM FLEX herbicide with other products, follow the most restrictive precautions and instructions for all products used.

Crop-Specific Restrictions

- **DO NOT** apply more than 4.0 fl oz. per acre (0.117 lb ai/A of pyroxasulfone/0.008 lb ai/A of carfentrazone-ethyl) of ANTHEM FLEX herbicide in a single application.
- **DO NOT** apply ANTHEM FLEX herbicide more than 3 times per year.
- **DO NOT** apply ANTHEM FLEX herbicide more than a total of 9.12 fluid ounces per acre per year (0.266 lb ai/A of pyroxasulfone/0.019 lb ai/A of carfentrazone-ethyl).
- The minimum re-treatment interval is 14 days.
- **DO NOT** apply more than 0.266 lb ai/A of pyroxasulfone or 0.096 lb a.i./A of carfentrazone-ethyl to peanuts in a year including preplant burndown. ANTHEM FLEX herbicide may be used prior to or after applications of other pyroxasulfone or carfentrazone-ethyl containing herbicides.
- When using ANTHEM FLEX herbicide in sequential programs, **DO NOT** exceed the maximum amount of either active ingredient per year for the soil textures as specified above.

Crop-Specific Precautions

- The use of ANTHEM FLEX herbicide may result in temporary suppression of growth in peanut if extreme conditions such as high rainfall and extended periods of water-saturated soil occur during peanut germination or early seedling development.
- Before applying to peanut, verify with your local seed company (supplier) the selectivity of ANTHEM FLEX herbicide on your variety to avoid potential crop injury.
- Prolonged periods of dry weather following applications of ANTHEM FLEX herbicide may reduce herbicide efficacy. If adequate rainfall is not received, weed emergence and escapes can occur. A postemergence herbicide may be needed to control these weed escapes. Under high moisture conditions and/or extremely cool environmental conditions, the crop may experience some temporary crop response. The crop will rapidly outgrow these effects and develop normally with no reduction in yield.

DRY/FIELD PEAS, CHICKPEAS, AND LENTILS FALL/SPRING PREPLANT AND PREEMERGENCE APPLICATION RATES

Table 10. ANTHEM FLEX herbicide Application Rates:

Organic Matter	ANTHEM FLEX herbicide fl oz/A		
	Coarse	Medium	Fine
Less than 3%	-	2.75 - 3.25	3.5 - 4.5
Greater than 3%	-	3.0 - 4.5	4.0 - 5.0

- Use rates listed above are for control or suppression of weeds listed in Table 1.
- For early preplant applications and reduced tillage (i.e. no-till/ high residue) systems use the higher labeled rate by the soil type.
- For additional burndown of emerged weeds, ANTHEM FLEX herbicide can be tank-mixed with other herbicides such as glyphosate, glufosinate and others.
- Spring preplant applications may be made up to 30 days prior to planting.
- Preemergence applications must be made prior to cracking or emergence to avoid potential crop response.
- Seed must be planted a minimum of 1.0 inches deep and ensure furrow is closed and there is good soil coverage. Shallow planting can lead to increased crop injury risk.

For additional control of kochia, Russian thistle, common lambsquarter, nightshades, annual morningglories, Palmer amaranth and others, use preplant/pre-emergence tank mixes at their labeled use rate. A sequential application of a postemergence herbicide labeled for control of broadleaf weeds may also be used to for additional control during the growing season.

Crop-Specific Restrictions

- **DO NOT** apply more than 5.0 fl oz. per acre (0.146 lb ai/A of pyroxasulfone/0.010 lb ai/A of carfentrazone-ethyl) of ANTHEM FLEX herbicide in a single application.
- **DO NOT** apply ANTHEM FLEX herbicide more than 3 times per year.
- The minimum re-treatment interval is 14 days.
- **DO NOT** apply more than 0.266 lb ai/A of pyroxasulfone or 0.096 lb a.i./A of carfentrazone-ethyl to dry/field peas, chickpeas, and lentils per year including preplant burndown. ANTHEM FLEX herbicide may be used prior to or after applications of other pyroxasulfone or carfentrazone-ethyl containing herbicides.
- When using ANTHEM FLEX herbicide in sequential programs, **DO NOT** exceed the maximum amount of either active ingredient per year for the soil textures as specified above.
- Vegetable, foliage of legume, except soybean, subgroup 7A may be fed or grazed by livestock.

Crop-Specific Precautions

- The use of ANTHEM FLEX herbicide may result in temporary suppression of growth in of dry/field peas, chickpeas, and lentils if extreme conditions such as high rainfall and extended periods of water- saturated soil occur during dry/field peas, chickpeas, and lentils germination or early seedling development.
- Prolonged periods of dry weather following applications of ANTHEM FLEX herbicide may reduce herbicide efficacy. If adequate rainfall is not received, weed emergence and escapes can occur.
- The activity of ANTHEM FLEX herbicide may be reduced if heavy trash is present on the soil surface covering more than 25-50% of the soil. To improve performance, manage trash levels with uniform spreading with combine or light tillage. Application rates at the higher side of the rate ranges may also improve performance in heavy trash situations.
- **DO NOT** apply Sharpen® powered by Kixor® herbicide (EPA Reg No 7969-278, Saflufenacil) or any other saflufenacil containing product with, before, or after any ANTHEM FLEX herbicide application to lentils.

SOYBEAN

Fall and spring preplant applications greater than 14 days ahead of planting in soybeans.

Table 11. ANTHEM FLEX herbicide Application rates:

Early preplant	ANTHEM FLEX herbicide fl oz/A		
	Coarse	Medium	Fine
15-45 days prior to planting	2.75 - 3.8	4.0 – 5.0	4.0 – 5.0

PREPLANT, PREPLANT INCORPORATED AND PREEMERGENCE APPLICATION RATES

Table 12. ANTHEM FLEX herbicide Application rates:

Organic Matter	ANTHEM FLEX herbicide fl oz/A		
	Coarse	Medium	Fine
Less than 1%	2.25 – 2.75	2.75 – 4.0	4.0 – 5.50
1 to 3%	2.25 – 3.8	2.75 – 5.5	4.5 – 6.4
Greater than 3%	3.8	4.0 – 5.5	4.5 – 6.4

- Use rates listed above are for control or suppression of weeds listed in Table 1.
- For early preplant applications and reduced tillage (i.e. no-till/ high residue) systems use the higher labeled rate by the soil type.
- Preemergence applications must be made prior to soybean cracking and emergence to avoid potential crop injury response.
- Soybean seed must be planted a minimum of 1.0 inches deep and furrow is closed with good soil coverage. Shallow planting can lead to increased crop injury risk.
- Early preplant surface applications are not advised for coarse textured soils, in areas where annual rainfall (or rainfall plus irrigation) typically exceeds 40 inches.

For additional control of morningglory, common ragweed, Palmer amaranth and giant ragweed, velvetleaf, sunflower and others, use preplant/preemergence tank mixes or sequential applications of Authority® herbicides (Authority® Assist Herbicide EPA Reg No 279-3330, Sulfentrazone + Imazethapyr, Authority® Elite Herbicide EPA Reg No 279- 3442, S-Metolachlor + Sulfentrazone, Authority® First DF Herbicide EPA Reg No 279- 3246, Sulfentrazone + Cloransulam-Methyl, Authority® Maxx Herbicide EPA Reg No 279- 9560, Sulfentrazone + Chlorimuron Ethyl, Authority® MTZ DF Herbicide EPA Reg No 279- 3340, Metribuzin + Sulfentrazone, Authority® Supreme Herbicide EPA Reg No 279-3601, Pyroxasulfone + Sulfentrazone, Authority® XL Herbicide EPA Reg No 279-3413, Sulfentrazone + Chlorimuron Ethyl), Spartan® 4F herbicide (EPA Reg. No. 279-3220, Sulfentrazone), or Spartan® Charge herbicide (EPA Reg. No. 279-3337, Carfentrazone-ethyl + Sulfentrazone) or other suitable herbicides at their labeled use rate. A sequential application of a postemergence herbicide labeled for control of these broadleaf weeds may also be used to for additional control during the growing season.

Crop-Specific Restrictions

- **On coarse textured soils -**
 - **DO NOT** apply more than 3.8 fl. oz/A (containing 0.111 lb ai of pyroxasulfone and 0.008 lb ai of carfentrazone-ethyl) in a single application.
 - **DO NOT** exceed a maximum cumulative of 3.8 ozs/A of ANTHEM FLEX herbicide (containing 0.111 lb ai of pyroxasulfone and 0.008 lb ai of carfentrazone-ethyl) per year.
- **On medium soils -**
 - **DO NOT** apply more than 5.45 fl. oz/A (containing 0.159 lb ai of pyroxasulfone and 0.011) lb ai of carfentrazone-ethyl) in a single application.
 - **DO NOT** exceed a maximum cumulative total of 6.4 ozs/A of ANTHEM FLEX herbicide (containing 0.186 lb ai of pyroxasulfone and 0.0134 lb ai of carfentrazone-ethyl) per year.
- **On fine soils -**
 - **DO NOT** apply more than 6.4 fl oz/A (containing 0.187 lb ai of pyroxasulfone and 0.013 lb ai of carfentrazone-ethyl) in a single application.
 - **DO NOT** exceed a maximum cumulative total of 6.4 fl.oz/A of ANTHEM FLEX herbicide (containing 0.187 lb ai of pyroxasulfone and 0.013 lb ai of carfentrazone-ethyl) per year.
- **DO NOT** apply ANTHEM FLEX herbicide more than twice per year using labeled rates less than the maximum single application.
- The minimum re-treatment interval is 14 days.
- **DO NOT** apply more than 0.023 lb ai/A of carfentrazone-ethyl or 0.186 lb ai/A of pyroxasulfone per acre on soybeans in a year including preplant burn-down. ANTHEM FLEX herbicide may be used prior to or after applications of other pyroxasulfone or carfentrazone-ethyl containing herbicides.
- When using ANTHEM FLEX herbicide in sequential programs, **DO NOT** exceed the maximum amount of either active ingredient per year for the soil textures as specified above.

SUNFLOWERS

FALL, SPRING PREPLANT, PREPLANT INCORPORATED AND PREEMERGENCE APPLICATION RATES

Table 13. ANTHEM FLEX herbicide application rates for Sunflowers

Organic Matter	ANTHEM FLEX herbicide fl oz/A		
	Coarse	Medium	Fine
Less than 3%	2 – 2.8	2.8 – 4.5	4.5 – 7.3
Greater than 3%	2.0 – 3.0	3.0 – 5.5	5.0 – 7.3

- Use rates listed above are for control or suppression of weeds listed in Table 1.
- For early preplant applications (15-45 days before planting) and reduced tillage (i.e. no-till/ high residue) systems use the higher labeled rate by the soil type.
- Preemergence applications must be made prior to sunflower cracking or emergence to avoid potential crop injury response.
- Sunflower seed must be planted a minimum of 1.0 inches deep and the seed furrow closed with good soil coverage of the seed. Shallow planting can lead to increased crop injury risk.
- Early preplant surface applications are not advised for coarse textured soils, in areas where annual rainfall (or rainfall plus irrigation) typically exceeds 40 inches.

For additional control of kochia, Russian thistle, common lambsquarter, nightshades, annual morningglories, Palmer amaranth and others, use preplant/preemergence tank mixes or sequential applications of Spartan® 4F herbicide (EPA Reg. No. 279-3220, Sulfentrazone), or Spartan® Charge herbicide (EPA Reg. No. 279-3337, Carfentrazone-ethyl + Sulfentrazone) at their labeled use rate. A sequential application of a postemergence herbicide labeled for control of these broadleaf weeds may also be used to for additional control during the growing season.

Crop-Specific Restrictions

- **DO NOT** apply more than 7.3 fl oz. per acre (0.213 lb ai/A of pyroxasulfone/0.015 lb ai/A of carfentrazone-ethyl) of ANTHEM FLEX herbicide to sunflowers in a single application.
- **DO NOT** apply more than a cumulative of 9.12 fl oz/A (0.266 lb ai/A of pyroxasulfone/0.019 lb ai/A of carfentrazone-ethyl) of ANTHEM FLEX herbicide per year from all sequential applications.
- **DO NOT** apply ANTHEM FLEX herbicide more than 3 times per year.
- The minimum re-treatment interval is 14 days.
- **DO NOT** apply more than 0.266 lb ai/A of pyroxasulfone or 0.096 lb a.i./A of carfentrazone-ethyl to sunflowers in a year including preplant burndown. ANTHEM FLEX herbicide may be used prior to or after applications of other pyroxasulfone or carfentrazone-ethyl containing herbicides. When using ANTHEM FLEX herbicide in sequential programs, **DO NOT** exceed the maximum amount of either active ingredient per year for the soil textures as specified above.

Crop-Specific Precautions

- The use of ANTHEM FLEX herbicide may result in temporary suppression of growth in sunflower if extreme conditions such as high rainfall and extended periods of water-saturated soil occur during sunflower germination or early seedling development.
- Prolonged periods of dry weather following applications of ANTHEM FLEX herbicide may reduce herbicide efficacy. If adequate rainfall is not received, weed emergence and escapes can occur.
- The activity of ANTHEM FLEX herbicide may be reduced if heavy trash is present on the soil surface covering more than 25-50% of the soil. To improve performance, manage trash levels with uniform spreading with combine or light tillage. Application rates at the higher side of the rate ranges may also improve performance in heavy trash situations.

WHEAT (Spring and Winter)*

*(Spring and Winter Wheat except in WA, OR, ID and MT) See section below for use in WA, OR, ID, and MT.

Application Rates

Application rates for ANTHEM FLEX herbicide when applied alone, in tank mix, or sequentially are provided in Table 14.

Table 14 Residual Rates of ANTHEM FLEX herbicide in Spring and Winter Wheat

Application Timing	Use Rate by Soil Texture ¹ ANTHEM FLEX herbicide fl oz/A		
	Coarse	Medium	Fine
Delayed Preemergence	2.0 – 2.73	2.75 – 3.64	3.5 – 4.55
Early Postemergence	2.0 – 2.73	2.75 – 3.64	2.7 – 4.55

¹ Refer to Table 3 for definitions of soil texture groups.

Crop-Specific Restrictions

- **On coarse textured soils -**
 - **DO NOT** apply more than 2.73 fl. oz/A (0.080 lb ai/A of pyroxasulfone and 0.006 lb ai/A of carfentrazone-ethyl) in a single application.
- **On medium soils -**
 - **DO NOT** apply more than a 3.64 fl. oz/A (0.106 lb ai/A of pyroxasulfone and 0.008 lb ai/A of carfentrazone-ethyl) in a single application.
- **On fine soils -**
 - **DO NOT** apply more than 4.55 fl. oz/A (0.133 lb ai/A of pyroxasulfone and 0.009 lb ai/A of carfentrazone-ethyl) in a single application.
- **DO NOT** exceed a maximum cumulative amount of 4.55 fl. oz/A (0.133 lb ai of pyroxasulfone and 0.0095 lb ai of carfentrazone-ethyl) of ANTHEM FLEX herbicide per year from all sequential applications.
- **DO NOT** apply more than 0.133 lb ai/A total of pyroxasulfone to wheat per year.
- **DO NOT** apply more than a total of 0.031 lb ai/A of carfentrazone-ethyl to wheat per year.
- **DO NOT** apply more than twice in wheat per year when using labeled rates less than the single maximum application rate.
- The minimum re-treatment interval is 14 days.
- **DO NOT** apply to durum wheat.
- **DO NOT** apply preplant incorporated in wheat.

- **DO NOT** apply preplant, preemergence, or delayed preemergence to broadcast seeded wheat.
- **DO NOT** seed wheat deeper than 1.5 in. after a delayed preemergence application.
- **DO NOT** irrigate fields after a delayed preemergence application until wheat spikes.
- **DO NOT** harvest, feed, or graze within 7 days after application.

Specific Spring and Winter Wheat Use Instructions and Precautions

- Rainfall and/or irrigation totaling at least 0.5 inch prior to weed emergence may be necessary for herbicide activation and optimum weed control. If no rain occurs within 7 days after application, apply overhead irrigation if available, at 0.5 to 0.75 inch total volume. Use a maximum of 0.5 inch on coarse textured soils and a maximum of 1.0 inch on medium and fine textured soils.
- Excessive rainfall, irrigation, or prolonged wet soil conditions after application of ANTHEM FLEX herbicide from seed germination through seedling emergence may increase the risk of wheat seedling injury and needs to be avoided if possible.
- Before applying to wheat, verification of ANTHEM FLEX herbicide selectivity on your variety must be confirmed to avoid injury to sensitive wheat varieties. Check with the local Cooperative Extension agent for information on potential ANTHEM FLEX herbicide varietal sensitivity. If variety tolerance is unknown, such as with new varieties, apply ANTHEM FLEX herbicide on a small area to confirm variety safety before use on large acreage.

Application Timings

ANTHEM FLEX herbicide may be applied in a single application or in sequential applications.

Delayed Preemergence Application

Apply ANTHEM FLEX herbicide at use rates specified in **Table 14** as a broadcast spray to the soil surface following wheat planting when 80 percent of germinated wheat seeds have a shoot at least ½ inch long until wheat spiking to the soil surface with uniform seedbed which is firm and free of clods. Complete seed furrow closure and adequate soil coverage must occur to prevent seed contact with ANTHEM FLEX herbicide. Rainfall or irrigation of at least 0.5 inch prior to weed emergence is required for optimum herbicide activation and weed control. If rainfall or irrigation is not received within 7 days, weed control may be erratic.

Early Postemergence Application

Apply ANTHEM FLEX herbicide at use rates specified in **Table 14** as a broadcast spray to wheat at spiking up to the 4th tiller growth stage. ANTHEM FLEX herbicide will provide residual control of weeds germinating after application and rainfall / irrigation activation. ANTHEM FLEX herbicide will not control all germinated or emerged weeds, and may need to be applied as a tank mix or sequential application with a labeled postemergence herbicide(s) for control of any emerged weeds. Apply as early as possible to obtain better weed control and reduce weed competition. Do not apply when conditions favoring drift exist or wind is above 10 mph. For optimum performance, make application to actively growing weeds up to 4 inches tall and rosettes less than 3 inches across. Coverage is essential for good control. The use of an adjuvant is recommended for consistent control.

Under high moisture conditions the crop may experience some temporary crop response. The crop will rapidly outgrow the effects and develop normally with no reduction in yield.

Tank Mixes

For control of emerged weeds, weeds larger than listed in Table 2, and weeds not listed on the label, a tankmix partner is required. It is the pesticide user's responsibility to ensure all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixes. Users must follow the most restrictive directions for use and precautionary statements for each product in the tank mixture.

WHEAT (Spring and Winter) WA, OR, ID & MT Application Rates

Application rates for ANTHEM FLEX herbicide when applied alone, in tank mix, or sequentially are provided in **Table 15**.

Table 15. Residual Rates of ANTHEM FLEX herbicide in Spring and Winter Wheat

Application Timing	Use Rate by Soil Texture ¹ ANTHEM FLEX herbicide fl oz/A		
	Coarse	Medium	Fine
Preplant Surface	2.5 – 2.73	2.75 – 3.64	3.5 – 4.55
Preemergence	2.0 – 2.73	2.75 – 3.64	3.5 – 4.55
Delayed Preemergence	1.27 – 2.73	1.82 – 3.64	2.73 – 4.55
Early Postemergence	2.0 – 2.73	2.75 – 3.64	2.73 – 4.55

¹ Refer to **Table 3** for definitions of soil texture groups.

Crop-Specific Restrictions

- **On coarse soils -**
 - **DO NOT** apply more than 2.73 fl. oz/A (0.080 lb ai/A of pyroxasulfone and 0.006 lb ai/A of carfentrazone-ethyl) in a single application.
- **On medium soils -**
 - **DO NOT** apply more than 3.64 fl. oz/A (0.106 lb ai/A of pyroxasulfone and 0.008 lb ai/A of carfentrazone-ethyl) in a single application.
- **On fine soils -**
 - **DO NOT** apply more than 4.55 fl. oz/A (0.133 lb ai/A of pyroxasulfone and 0.009 lb ai/A of carfentrazone-ethyl) in a single application.
- **DO NOT** exceed a maximum pyroxasulfone and 0.0095 lb ai of carfentrazone-ethyl) of ANTHEM FLEX herbicide per year from all sequential applications.
- **DO NOT** apply more than 0.133 lb ai/A total of pyroxasulfone to wheat per year.
- **DO NOT** apply more than a total of 0.031 lb ai/A of carfentrazone-ethyl to wheat per year.
- **DO NOT** apply more than twice in wheat per year when using labeled rates less than the single maximum application rate.
- The minimum re-treatment interval is 14 days apart.
- **DO NOT** apply to durum wheat.
- **DO NOT** apply preplant incorporated in wheat.
- **DO NOT** apply preplant, preemergence, or delayed preemergence to broadcast seeded wheat.
- **DO NOT** apply preemergence if ¼ in. or more of rain is expected within 48 hour of application.
- **DO NOT** seed wheat deeper than 1.5 in. after a preplant application or before a preemergence or delayed preemergence application.
- **DO NOT** irrigate fields after a preemergence or delayed preemergence application until wheat spikes.
- **DO NOT** harvest, feed, or graze within 7 days after application.

Specific Spring and Winter Wheat Use Instructions and Precautions

- Rainfall and/or irrigation totaling at least 0.5 inch prior to weed emergence may be necessary for herbicide activation and optimum weed control. If no rain occurs within 7 days after application, apply overhead irrigation if available, at 0.5 to 0.75 inch total volume. Use a maximum of 0.5 inch on coarse textured soils and a maximum of 1.0 inch on medium and fine textured soils.
- Excessive rainfall, irrigation, or prolonged wet soil conditions after application of ANTHEM FLEX herbicide from seed germination through seedling emergence may increase the risk of wheat seedling injury and needs to be avoided if possible.
- Before applying to wheat, verification of ANTHEM FLEX herbicide selectivity on your variety must be confirmed to avoid injury to sensitive wheat varieties. Check with the local Cooperative Extension agent for information on potential ANTHEM FLEX herbicide varietal sensitivity. If variety tolerance is unknown, such as with new varieties, apply ANTHEM FLEX herbicide on a small area to confirm variety safety before use on large acreage.

Application Timings

ANTHEM FLEX herbicide may be applied in a single application or in sequential applications.

Preplant Surface Application

Apply ANTHEM FLEX herbicide at the use rates specified in **Table 15** as a broadcast spray to the soil surface no more than 30 days prior to planting on all soil types. If rainfall or irrigation is not received within 7 days, weed control may be erratic.

Apply preplant only to soils with a CEC greater than 15, pH less than 7.5 and with an O.M. content greater than 2% to reduce the risk of crop response.

Preemergence Surface Application

Apply ANTHEM FLEX herbicide at use rates specified in **Table 15** after planting and before wheat spiking as a broadcast spray to the soil surface with uniform seedbed which is firm and free of clods. Rainfall or irrigation of at least 0.5 inch prior to weed emergence is required for optimum herbicide activation and weed control. If rainfall or irrigation is not received within 7 days, weed control may be erratic. Herbicide performance may be improved by a light incorporation (less than 2" deep) in the soil by mechanical means is allowed under limited activation moisture conditions. Complete seed furrow closure and adequate soil coverage must occur to prevent seed contact with ANTHEM FLEX herbicide.

Apply preplant only to soils with a CEC greater than 15, pH less than 7.5 and with an O.M. content greater than 2% to reduce the risk of crop response.

Delayed Preemergence Application

Apply ANTHEM FLEX herbicide at use rates specified in **Table 15** as a broadcast spray to the soil surface following wheat planting when 80 percent of germinated wheat seeds have a shoot at least ½ inch long until wheat spiking to the soil surface with uniform seedbed which is firm and free of clods. Rainfall or irrigation of at least 0.5 inch prior to weed emergence is required for optimum herbicide activation and weed control. If rainfall or irrigation is not received within 7 days, weed control may be erratic.

Early Postemergence Application

Apply ANTHEM FLEX herbicide at use rates specified in **Table 15** as a broadcast spray to wheat at spiking up to the 4th tiller growth stage. ANTHEM FLEX herbicide will provide residual preemergence control of susceptible weeds after ANTHEM FLEX herbicide is activated by rainfall / irrigation. ANTHEM FLEX herbicide may be tank-mixed or applied as a sequential application with a labeled postemergence herbicide(s) for control of emerged weeds. Read and follow the most restrictive tank-mix partner label prior to application. For optimum postemergence performance of small emerged susceptible broadleaf weeds, apply ANTHEM FLEX herbicide to actively growing weeds up to 2 inches tall and rosettes less than 2 inches across. Thorough coverage is essential for control. The use of an adjuvant is recommended for consistent control.

Under high moisture conditions the crop may experience some temporary crop response. The crop will rapidly outgrow the effects and develop normally with no reduction in yield.

Early Postemergence Weed Control in Wheat

When use as directed in a postemergence application on wheat, ANTHEM FLEX herbicide will provide control of weeds listed weeds.

Tank Mixes

For control of emerged weeds, weeds larger than listed in Table 2 and weeds not listed on the label, a tankmix partner is required. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Sequential Applications

If a sequential application program of ANTHEM FLEX herbicide is used (e.g., preplant or preemergence application followed by early postemergence application), the maximum combined rate of ANTHEM FLEX herbicide that may be applied in a year is 4.5 oz/A (0.082, 0.106, and 0.133 lb ai/A of pyroxasulfone and 0.0095 lb ai of carfentrazone-ethyl).

REPLANTING INSTRUCTIONS

If a labeled crop treated with ANTHEM FLEX herbicide is lost due to a natural catastrophe such as hail or frost, cotton, wheat, corn, and soybeans can be replanted immediately, provided this is not restricted on the label of a product used previously or by a product applied in a tank mixture with ANTHEM FLEX herbicide.

ROTATIONAL CROPS

Table 16.

Crop	ANTHEM FLEX herbicide Use Rate (fl Oz/A)				
	1.82	3.64	5.46	7.28	9.12
	Rotational Crop Interval (months after application)				
Alfalfa	10	10	10	10	10
Bulb Onion	2	4	4	4	4
Canola (rapeseed)	12	12	15	18	18
Celery	0	0	0	0	4
Chickpea	0	0	0	2	4
Corn	0	0	0	0	0
Cotton	1	2	4	4	4
Bean, edible dry	9	9	9	9	11
Edamame	0	0	0	4	4
Edible Succulent Peas , Succulent Edible Beans	9	9	11	11	11
Garlic	0	0	4	4	4
Flax	2	4	6	8	8
Grain Sorghum	6	6	10	10	12
Cool-season grasses grown for seed*	11**	11**	18	18	18
Warm-season grasses grown for seed	18	18	18	18	18
Green onion	4	6	8	12	12
Lentils	0	0	0	4	4
Mint	4	4	4	4	4
Peanut	1	2	4	4	4
Peas, field (dry)	0	0	0	4	4
Potato	0	0	0	0	0
Rice	10	12	18	24	24
Small grains (other than wheat)	11	11	11	18	18
Soybean	0	0	0	4	4
Sugarbeet	12	12	15	15	15
Safflower	1	1	1	2	4
Sunflower	0	0	0	3	4
Other group 20B crops	4	4	4	4	4
Sweet Potato	4	4	4	4	9
Tobacco	9	9	9	9	9
Wheat	0	1	4	6	6
Other crops	18	18	18	18	18

NOTE: For rotational crop restrictions when ANTHEM FLEX herbicide is used in tank mixtures or sequentially with other products, refer to the rotation intervals on the other product label for possible additional restrictions.

*Only when grown in states of Idaho, Oregon, and Washington. For all other states, see rotational crop interval for "Other Crops".

** An 11-month rotational crop interval only when greater than 15 inches of precipitation (rainfall/irrigation) has occurred from time of application to planting of grasses grown for seed. If less than 15 inches of precipitation has occurred, the rotational interval is 18 months.

LABEL TRACKING INFORMATION

Label Code: SL-4338 031320 030620

ANTHEM, Authority, Hero, Mustang and FMC — Trademarks of FMC Corporation or an affiliate.

©2020 FMC Corporation All Rights Reserved