

PURSUIT®
herbicide

FOR USE IN SOYBEANS

ACTIVE INGREDIENT:

Ammonium salt of imazethapyr ($\pm$)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid*..... 22.87%

INERT INGREDIENTS..... 77.13%

TOTAL..... 100.00%

*Equivalent to 21.6% ($\pm$)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid

(1 gallon contains 2.0 pounds of active ingredient as the free acid)

EPA Reg. No. 241-310

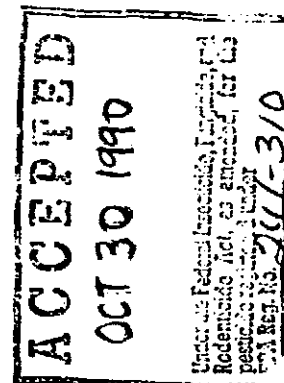
EPA Est. No. 32761-MO-3

KEEP OUT OF REACH OF CHILDREN

CAUTION!

PRECAUCION!

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.



STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF IN EYES: Flush with plenty of water.

See Next Page for Additional Precautionary Statements

In case of an emergency endangering life or property involving this product, call collect, day or night, area code 201-835-3100

Net Contents: 1 gallon
(3.78 liters)

8/90

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PRECAUTIONARY STATEMENTS**HAZARDS TO HUMANS****CAUTION!**

Harmful if inhaled or absorbed through skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water or wetlands (swamps, bogs, marshes and potholes).

DO NOT contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Observe all cautions and limitations on this label and on the labels of products used in combination with PURSUIT. Do not use PURSUIT other than in accordance with the instructions set forth on this label. The use of PURSUIT not consistent with this label may result in injury to crops. Keep containers closed to avoid spills and contamination.

DO NOT apply this product through any type of irrigation system.

STORAGE AND DISPOSAL**PROHIBITIONS:**

KEEP FROM FREEZING

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DO NOT store below 32°F.

DO NOT contaminate water, food or feed by storage or disposal.

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

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

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on research and field use. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use of, or application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associated with the use of this product in any manner not specifically set forth on this label.

American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above.

American Cyanamid Company's liability will be limited to a refund of the purchase price of PURSUIT. In no case shall Cyanamid or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.

American Cyanamid Company makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY.

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GENERAL INFORMATION

Entry into treated fields is not permitted without protective clothing until sprays have dried.

PURSUIT can be applied as an early preplant, preplant incorporated, preemergence or early postemergence treatment in soybeans. The application method of choice will depend on the anticipated weed spectrum and the preference of the applicator.

The mode of weed killing activity involves uptake of PURSUIT by weed roots and/or foliage and rapid translocation to the growing points. Adequate soil moisture is important for optimum PURSUIT activity. When adequate soil moisture is present, PURSUIT will provide residual control of susceptible germinating weeds; activity on established weeds will depend on the weed species and the location of its root system in the soil.

Use of PURSUIT herbicide in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and, therefore, rotational crop injury is always possible.

Occasionally, internode shortening and/or temporary yellowing of soybean plants may occur following PURSUIT applications. This will not affect soybean yields.

MIXING INSTRUCTIONS

Fill the spray tank one-half to three-quarters full with clean water. Use a calibrated measuring device to measure the required amount of PURSUIT. Add PURSUIT to the spray tank while agitating. Fill the remainder of the tank with water.

For postemergence applications, add a nonionic surfactant or crop oil concentrate and a liquid fertilizer solution (10-34-0, 28 or 32% nitrogen) as the last ingredients in the tank. Ammonium sulfate may be used in place of a liquid fertilizer. The addition of fertilizer to the spray solution is required for optimum weed control. Maintain agitation while spraying to ensure a uniform spray mixture. An antifoaming agent may be added to the tank if needed.

When tank mixing PURSUIT with recommended herbicides, add the other herbicide to the spray tank first and make sure it is thoroughly mixed before adding PURSUIT. When tank mixing Bronco¹ Roundup¹ or Gramoxone Super² with PURSUIT and PROWL[®] herbicide, trifluralin, Lasso¹ or Dual³ add the herbicides in the following order: (1) PROWL, trifluralin, Lasso or Dual, (2) Roundup or Gramoxone Super, (3) PURSUIT, and (4) nonionic surfactant.

If dicamba sprayer contamination is possible, refer to the appropriate dicamba label (Banvel, Marksman) for sprayer cleanup directions. Clean the sprayer prior to PURSUIT applications to avoid dicamba injury to soybeans.

To avoid injury to sensitive crops, spray equipment used for PURSUIT applications must be drained and thoroughly cleaned with water before being used to apply other products.

SPRAYING INSTRUCTIONS

GROUND APPLICATIONS: Uniformly apply with properly calibrated ground equipment in 10 or more gallons of water per acre. A spray pressure of 20 to 40 psi is recommended.

To ensure thorough coverage, use a minimum of 20 gallons of water per acre when applying PURSUIT to minimum or no-till soybeans. Use higher gallonage for fields with dense vegetation or heavy crop residues.

PURSUIT APPLICATIONS WITH A MELROE SPRA-COUPÉ

PURSUIT may be applied to soybeans with a Spra-Coupe sprayer. When applying PURSUIT with a Spra-Coupe, spray the weeds before they reach the maximum size listed in this label. Adequate control of weeds is dependent upon good spray coverage of the weeds. The sprayer must be calibrated to deliver the recommended spray volume and pressure to ensure adequate spray coverage of the weeds.

¹Bronco, Lasso and Roundup are trademarks of Monsanto Agricultural Products Company.

²Gramoxone Super is a trademark of ICI Americas, Inc.

³Dual is a trademark of Ciba Geigy Corporation.

[®]Registered Trademark of American Cyanamid Company.

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When applying PURSUIT with a Spra-Coupe, apply a minimum of 10 gallons per acre of spray solution with a nozzle pressure between 40-60 psi.

NOZZLE/BOOM

Adjust the boom height to ensure proper coverage of weed foliage (according to the manufactures recommendation). The nozzle spacing on the boom should be 20 inches. Use only standard flat-fan nozzle tips.

DO NOT apply with ground equipment when wind velocity is greater than 10 mph, or when spray may be carried to sensitive crops. Sensitive crops include leafy vegetables, sugar beets, and cotton.

Avoid overlaps when spraying.

AERIAL APPLICATIONS:

Uniformly apply with properly calibrated aerial equipment in 5 or more gallons of water per acre. When applied POSTEMERGENCE, the addition of a non-ionic surfactant AND fertilizer solution are required for optimum weed control. Apply a non-ionic surfactant at the rate of 1 pint per 100 gallons of spray mixture AND a liquid fertilizer at the rate of 1 quart per acre. (See instructions under APPLICATION INSTRUCTIONS - POSTEMERGENCE).

To avoid injury to sensitive crops from drift, aerial applicators must adhere to the following SPECIAL AERIAL USE DIRECTIONS AND PRECAUTIONS.

- Nozzle height above ground must be a maximum of 10 feet.
- Nozzles must be pointed toward the rear of the aircraft. The downward angle of the nozzle should not be greater than 20 degrees.
- To minimize wing-tip vortex roll, nozzles or spray boom must not be located any closer to end of wing or rotor than three-fourths the distance from the center of the aircraft.
- Use a maximum spray pressure of 40 psi.
- A buffer zone must be established between the area to be sprayed and sensitive crops.
- DO NOT spray when wind velocity is greater than 5 mph. Coarse sprays (larger droplets) are less likely to drift.

Applicator is responsible for any loss or damage which results from spraying PURSUIT in a manner other than recommended in this label. In addition, applicator must follow all applicable state and local regulations and ordinances in regard to spraying.

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USE RATE
(4 OUNCES PER ACRE)

Apply PURSUIT at a broadcast rate of 4 ounces per acre (1/4 pint) for all methods of application: early preplant, preplant incorporated, preemergence (including minimum and no-till) and postemergence. At this broadcast rate, one gallon of PURSUIT will treat 32 acres of soybeans.

NOTE: Only one application of PURSUIT may be made during the season.

WEEDS CONTROLLED POSTEMERGENCE

BROADLEAF WEEDS

Weeds Controlled 1-2 leaves (1-2 inches)	Weeds Controlled 1-4 leaves (1-3 inches)	Weeds Controlled up to 8 leaves
Lambsquarters, common	Jimsonweed	Artichoke,
Morningglory species	Kochia	Jerusalem (6-10")
entireleaf	Marshelder	Cocklebur (1-8")
ivyleaf	Morningglory	Pigweed (1-8")
pitted	smallflower	palmer
tall	Mustard species	redroot
	Nightshade	smooth
	black	spiny
	Eastern black	Waterhemp,
	hairy	tall
	Ragweed	
	common	
	giant	
	Smartweed	
	ladysthumb	
	Pennsylvania	
	Spurge	
	prostrate	
	spotted	
	Sunflower, common	
	Velvetleaf	

GRASSES

Weeds controlled 1-3 leaves (1-3 inches)	Weeds Controlled 1-6 leaves (1-8 inches)
Barnyardgrass	Johnsongrass
Crabgrass	seedling
large	Shattercane
smooth	
Cupgrass*	
woolly	
Foxtail	
giant	
green	
giant green	
robust purple	
robust white	
yellow	
Red rice	

POSTEMERGENCE applications of PURSUIT suppress and reduce competition from broadleaf signalgrass, yellow nutsedge and rhizome Johnsongrass, barnyard sage and Canada thistle.

*PURSUIT controls emerged woolly cupgrass only.

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APPLICATION INSTRUCTIONS

POSTEMERGENCE

PURSUIT is effective in controlling weeds in conservation tillage as well as in conventional production systems. Apply PURSUIT herbicide as an early postemergence treatment when weeds are actively growing and before they exceed a height of 3 inches, unless otherwise indicated. Delay application until the majority of the weeds are at the recommended growth stage. Application timing should be based on weed size and not soybean growth stage. Apply PURSUIT to soybeans and weeds that are actively growing.

The application of a soil grass herbicide (such as PROWL) will control grass weeds not on the PURSUIT label and enhance the control of certain broadleaf weeds such as lambsquarter. Refer to the PROWL (or other grass herbicide) label for specific use recommendations, rates and precautions.

ADDITIVES:

POSTEMERGENCE APPLICATIONS OF PURSUIT REQUIRE THE ADDITION OF A NON-IONIC SURFACTANT OR A CROP OIL CONCENTRATE AND A NITROGEN FERTILIZER.

SURFACTANTS: Use a non-ionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 1 qt./100 gal. or use the surfactant Dash⁴ at the rate of 1 qt./acre. When weeds are under moisture or temperature stress, the surfactant Dash is recommended.

CROP OIL CONCENTRATE: The crop oil concentrate may be petroleum or vegetable oil base (such as methylated sunflower oil). Apply the crop oil concentrate at the rate of 1 qt./acre.

NITROGEN FERTILIZER: Recommended nitrogen based fertilizers include liquid fertilizers (such as 28%N, 32%N or 10-34-0) at the rate of 1 - 2 qt./acre. Use the higher rate when weeds are under moisture or temperature stress. Instead of a liquid fertilizer, ammonium sulfate may be used at the rate of 17 lbs. per 100 gallons of spray solution.

When PURSUIT is applied postemergence, absorption will occur through both the roots and foliage. Susceptible weeds stop growing and either die or are not competitive with the crop. PURSUIT not only controls many existing broadleaf and grass weed when applied postemergence, it also provides control of susceptible weeds that may emerge after application.

For maximum weed control, cultivate 7 - 10 days following a postemergence PURSUIT application. This timely cultivation will enhance residual weed control, especially under dry conditions.

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⁴Dash is a trademark of BASF Corporation.

If air temperatures reach or stay below 40° for 10 or more hours, delay a PURSUIT application for 48 hours from the time temperatures increase above 40°. Unusually cool temperatures (40° or less) reduces photosynthesis and transpiration. This reduces the uptake and translocation (and effectiveness) of PURSUIT in weeds.

Products that can be tank mixed with PURSUIT include Basagran⁵, Blazer⁵, Galaxy⁵, Storm⁵, Cobra⁶, Tackle⁷, and Reflex⁸. Certain herbicides should not be applied with PURSUIT (see Page 16 for restrictions).

DO NOT tank mix PURSUIT with postemergence grass herbicides. If a selective postemergence grass herbicide such as Poast⁵, Fusilade 2000⁸, or Assure⁹ is applied following PURSUIT, delay the application of the postemergence grass herbicide 3 days following the application of PURSUIT.

PURSUIT should be applied a minimum of one hour before rainfall or overhead irrigation.

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⁵Basagran, Blazer, Storm, and Poast are trademarks of BASF Corporation.

⁶Cobra is a trademark of Valent Chemical Co.

⁷Tackle is a trademark of Rhone-Poulenc.

⁸Reflex and Fusilade 2000 are trademarks of ICI Americas, Inc.

⁹Assure is a trademark of E. I. duPont de Nemours & Co., Inc.

WEEDS CONTROLLED BY SOIL APPLICATIONS OF
PURSUIT ALONE

When applied as directed, PURSUIT soil-applied will control the following weeds:

BROADLEAF WEEDS

Carpetweed
Cocklebur, common**
Galinsoga
Jimsonweed*
Kochia
Lambsquarters, common*
Morningglory
 small flower
Mustard species
Nightshade
 black
 Eastern black
 hairy
Pigweed
 palmer
 redroot
 smooth
 spiny
Puncturevine
Purslane, common
Pusley, Florida
Sida, prickly* (teaweed)
Smartweed
 ladysthumb
 Pennsylvania
Spurge
 prostrate
 spotted
Sunflower, common*
Velvetleaf*
Waterhemp,
 tall

GRASSES*

Foxtail
 giant
 giant green
 green
 robust purple
 robust white
 white
Johnsongrass
 seedling

* Common lambsquarters, jimsonweed, prickly sida, velvetleaf, common sunflower and grass species are more consistently controlled by preplant incorporated treatments.

** Light to moderate infestations only. Must be preplant incorporated for best results.

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PURSUIT soil applied will aid in the control of and reduce competition from:

BROADLEAF WEEDS

Buffalobur***
Mallow, Venice***
Morningglory***
entireleaf
ivyleaf
pitted
tall
Ragweed
common
giant***

GRASSES***

Barnyardgrass
Crabgrass
large
smooth
Goosegrass
Nutsedge, yellow
Panicum
fall
Texas
Shattercane
Signalgrass
broadleaf

***More consistent control can be obtained from preplant incorporated treatments.

**WEEDS CONTROLLED BY
PREPLANT AND PREEMERGENCE COMBINATION TREATMENTS**

When applied as directed, PURSUIT preplant incorporated or preemergence combination treatments with PROWL, trifluralin, Lasso or Dual will control the weeds listed in following Table, in addition to those controlled by PURSUIT alone.

	PROWL ^a	trifluralin ^b	Lasso	Dual
GRASSES				
Barnyardgrass	X	X	X	X
Crabgrass, smooth	X	X	X	X
Crabgrass, large	X	X	X	X
Crowfootgrass	X	X		
Goosegrass	X	X	X	X
Panicum, fall	X	X	X	X
Panicum, Texas	X	X		
Sandbur, field	X	X		
Shattercane	X ^b	X		
Signalgrass, broadleaf	X	X	X	X
Witchgrass	X	X	X	X

^a Preplant incorporated tank mixture applications of PURSUIT plus PROWL will suppress the growth of itchgrass, wild proso millet and rhizome Johnsongrass.

^b Preplant incorporated treatments only

SOIL APPLICATIONS

PURSUIT provides effective weed control in conservation tillage systems designed to meet conservation compliance requirements. PURSUIT can be applied as an early preplant, preplant incorporated, or preemergence treatment in soybeans. It can also be applied in conventional, minimum tillage and no-till production systems. The application method of choice will depend on the anticipated weed spectrum and the preference of the applicator.

When PURSUIT is applied to the soil, susceptible weeds may emerge, growth will stop and the weeds will either die or are not competitive with the crop.

HERBICIDE COMBINATIONS

PURSUIT is active against many grass species. However, when heavy grass pressure is anticipated, PURSUIT should be used in combination with one of the following registered soil-applied grass herbicides; PROWL herbicide, trifluralin, Lasso or Dual.

When PURSUIT is used in combination with another herbicide, refer to the respective label for rates, methods of application, proper timing, weeds controlled, restrictions and precautions. Always use in accordance with the more restrictive label restrictions and precautions. No label dosages should be exceeded. PURSUIT cannot be mixed with any product containing a label prohibiting such mixtures.

SOIL APPLICATIONS WITH LIQUID FERTILIZERS

PURSUIT can be applied to the soil in liquid fertilizers, alone or in combination with PROWL, trifluralin, Lasso or Dual. Follow all PURSUIT label recommendations regarding incorporation, timing of application, special instructions and precautions. Apply treatments in 20 or more gallons of liquid fertilizer per acre with ground equipment. Always test the compatibility of PURSUIT with the liquid fertilizer before mixing in the spray tank.

PREEMERGENCE (SURFACE APPLICATIONS)

PURSUIT offers flexibility in that it can be utilized in all production tillage systems. It can be applied prior to planting or at planting in conventional, reduced tillage or no-till production systems.

PURSUIT controls weeds by uptake by weed roots and translocation to the growing points where it stops weed growth.

Adequate soil moisture is required for optimum activity. For surface applications, rainfall or overhead irrigation is necessary to move PURSUIT into the weed germination zone. The amount of rainfall or irrigation required following application depends on existing soil moisture, soil texture and organic matter content. Sufficient water to moisten the soil to a depth of 2 inches is normally adequate. If adequate moisture is not received within 7 days after a surface-applied treatment, then a cultivation is recommended to control escaped weeds. When adequate moisture is received after dry conditions, PURSUIT will provide residual control of susceptible germinating weeds; activity on established weeds will depend on the weed species and the location of its root system in the soil.

CONVENTIONAL:

PURSUIT may be applied after planting soybeans but before crop emergence or up to 45 days prior to planting. If moisture is insufficient, a thorough shallow tillage or cultivation (preferably with a rotary hoe) is recommended to improve weed control.

NO-TILL OR REDUCED TILLAGE:

Apply PURSUIT treatments before, during or after planting but before crop emergence. To ensure thorough coverage, use a minimum of 20 gallons of water per acre. Use higher gallonage for fields with dense vegetation or heavy crop residues.

For maximum grass control, tank mix PURSUIT with PROWL, Lasso or Dual. To kill existing vegetation, Gramoxone Super or Roundup may be tank mixed with PURSUIT alone or in combination with PROWL, Lasso or Dual. Gramoxone Super or Roundup should be deleted from the tank mixture if vegetation is absent at the time of application. Refer to the respective labels for use rates and precautions.

NOTE: Adjust planters to ensure adequate seed coverage.

PREPLANT INCORPORATED APPLICATIONS

PURSUIT may be applied following land preparation and should be thoroughly incorporated to a depth of 1 to 2 inches. Application may be made up to 45 days prior to planting. Mechanical incorporation can be achieved by one of the following:

- (a) Disk harrow set to cut 3 to 4 inches deep and operated at 4 to 6 mph with the second pass at an angle to the first.
- (b) PTO-driven equipment (tillers, cultivators, hoes) set to cut 2-3 inches deep and operated one time at 4 mph or less.
- (c) Rolling cultivator set to cut 2 to 4 inches deep and operated two times at 6 to 8 mph with the second pass at an angle to the first. Use only on coarse textured soils.
- (d) Field cultivator with 3 or 4 rows of sweeps (Do not use chisel points), spaced at intervals of 7 inches or less and staggered so that no soil is left unturned, set to cut 3 inches deep, and operated two times at more than 5 mph with the second pass at an angle to the first.
- (e) LELY-ROTERRA¹⁰ set and operated according to the manufacturer's directions to thoroughly incorporate PURSUIT to a depth of 1 to 3 inches.
- (f) Do-All set and operated according to the manufacturer's directions to incorporate PURSUIT 1 to 3 inches deep and operated at 4 to 6 mph.

If soybeans are planted on beds, apply and incorporate after bed formation using PTO-driven equipment or a rolling cultivator.

¹⁰LELY-ROTERRA is a trademark of Lely.

ROTATIONAL CROPS

The following rotational crops may be planted after applying PURSUIT at the recommended rate in soybeans:

1. Four months after PURSUIT application:
 - Barley
 - Wheat
2. Nine and one-half months after PURSUIT application:
 - Edible beans (snap, lima, dry)
 - Field corn
 - Peanuts
 - Peas
 - Tobacco

DO NOT plant sugarbeets or rapeseed (canola) prior to 26 months after a PURSUIT application.

DO NOT plant other rotational crops prior to 18 months after a PURSUIT application.

If soybeans are furrow irrigated, till the soil prior to planting winter wheat. The beds should be broken up and the soil mixed with tillage equipment set to cut 4-6 inches deep.

Only rotational crops harvested at maturity may be used for feed or food.

In the event of a crop loss due to weather, soybeans can be replanted. DO NOT work the soil deeper than 2 inches.

There should be an interval of at least 85 days between an application of PURSUIT and soybean harvest.

Do not graze or feed treated soybean forage, hay or straw to livestock.

DO NOT apply products containing chlorimuron ethyl (i.e. Classic¹¹, Canopy¹¹, Gemin¹¹, Lorox Plus¹¹, Preview¹¹, etc.) or imazaquin (i.e. SCEPTER[®], SQUADRON[®], TRI-SCEPT[®], SCEPTER[®]O.T.[®], SCEPTER[®] 70DG, ALA-SCEPT[®]) the same year as PURSUIT or injury to follow crops may occur.

DO NOT tank mix PURSUIT with clomazone containing herbicides (Command¹² or Commence¹²). PURSUIT may be applied postemergence following a soil application of Command or Commence.

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¹¹Classic, Canopy, Gemini, Lorox Plus and Preview are trademarks of E. I. duPont de Nemours and Company.

¹²Command and Commence are trademarks of FMC Corporation.

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