

ASCEND[®] WSG

PLANT GROWTH REGULATOR

Hormone compounds to stimulate plant growth.

ACTIVE INGREDIENTS

Cytokinin, as Kinetin	0.76%
Gibberellic Acid	0.25%
Indole-3-butyric Acid.....	0.37%

OTHER INGREDIENTS	<u>98.62%</u>
TOTAL	100.00%

KEEP OUT OF REACH OF CHILDREN

SEE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS, COMPLETE DIRECTIONS FOR USE, WARRANTY DISCLAIMER AND LIMITATION OF LIABILITY.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Personal Protective Equipment:

Mixers, loaders, applicators and other handlers must wear:

- long-sleeved shirt and long pants,
- shoes plus socks.

Follow the manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwater or rinsate.

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NET CONTENTS:

Distributed by:
WINFIELD SOLUTIONS, LLC,
P.O. Box 64589, St. Paul, MN 55164

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WINFIELD

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours unless wearing appropriate PPE.

EXCEPTION: If the product is soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:

- coveralls over long-sleeved shirt and long pants,
- chemical-resistant gloves, and
- shoes plus socks.

CHEMIGATION INFORMATION

Apply this product only through furrow irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Maintain agitation in the supply tank while adding the required amount of ASCEND WSG, and throughout the application. ASCEND WSG should be added to the supply tank at the end of water application (prior to last complete cycle in moving systems).

The correct amount of ASCEND WSG to add is calculated as the rate in ounces per acre x the number of acres covered by the contents of the supply tank.

(For example, if the supply tank covers ten acres and the rate on the label for that crop is 0.2 ounces per acre, add $10 \times 0.2 = 2.0$ ounces to the supply tank at the beginning of the last full cycle).

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with the pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

The pesticide supply tank should be agitated throughout the application of ASCEND WSG. ASCEND WSG should be applied at the end of the water application.

ASCEND WSG should be applied at the end of the irrigation period in a sufficient amount of water to allow proper coverage of plant or crop but not to exceed 18 fluid ounces of ASCEND WSG per acre per application.

IN-FURROW CHEMIGATION

1. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.

2. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

a. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

c. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

e. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

f. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Maintain agitation in the supply tank while adding the required amount of ASCEND WSG, and throughout the application. ASCEND WSG should be added to the supply tank at the end of water application (prior to last complete cycle in moving systems).

The correct amount of ASCEND WSG to add is calculated as the rate in ounces per acre x the number of acres covered by the contents of the supply tank.

(For example, if the supply tank covers ten acres and the rate on the label for that crop is 0.2 ounces per acre, add $10 \times 0.2 = 2.0$ ounces to the supply tank at the beginning of the last full cycle).

APPLICATION INFORMATION

IMPORTANT: Read the entire "Directions for Use" and the "Notice" before using this product. If terms are not acceptable, return the unopened product container at once.

ASCEND WSG must be solubilized in water prior to use. DO NOT mix or attempt to solubilize directly into fertilizer.

Apply ASCEND WSG by ground or air. If applied by air, use 3 to 5 gallons of water per acre. If applied by ground on vegetable or field crops, use 5 to 25 gallons of water per acre. For tree crops, apply 50 to 200 gallons of water per acre. For turfgrass, apply ASCEND WSG by ground using 0.5 to 2.5 gallons of water per 1,000 square feet.

Test results have shown that this product can stimulate higher yields through a larger root mass, earlier fruiting and increased fruit retention. ASCEND WSG is a tool to increase plant efficiency.

SPRAY PROGRAM FOR VEGETABLE CROPS

BEANS AND PEAS:

1st Application - Apply 0.4 ounces per acre when the first trifoliolate is unfolded.

2nd Application - Apply 0.4 ounces per acre 2 weeks after the first application.

3rd Application - Apply 0.4 ounces per acre at first bloom.

ASPARAGUS, BROCCOLI, CABBAGE, CELERY, LETTUCE, MINT AND SPINACH:

1st Application - Apply 0.4 ounces per acre when the fifth leaf begins to unfold.

2nd Application - Apply 0.4 ounces per acre 2 weeks after the first application.

3rd Application - Apply 0.4 ounces per acre 2 weeks after the second application.

For maximum benefit, apply continuous applications of 0.1 to 0.2 ounces per acre at 7-10 day intervals after the first application throughout the production season.

CANTALOUPE, CUCUMBERS, MUSKMELON, WATERMELON, HONEYDEW, OKRA, AND SQUASH:

1st Application - Apply 0.4 ounces per acre when the third leaf begins to unfold.

2nd Application - Apply 0.4 ounces per acre 2 weeks after the first application.

3rd Application - Apply 0.4 ounces per acre 2 weeks after the second application.

For maximum yields, make continuous applications of 0.3 ounces per acre at 7-10 day intervals after the first application throughout the growing season.

EGGPLANT, PEPPER, AND TOMATO:

1st Application - Apply 0.4 ounces per acre when the plants have 3 true leaves.

2nd Application - Apply 0.4 ounces per acre 2 weeks after the first application.

3rd Application - Apply 0.4 ounces per acre 2 weeks after the second application.

For maximum yields and quality, make continuous applications of 0.1 ounces per acre after the first application at 7-10 day intervals throughout the growing season.

SWEET CORN AND POPCORN: Apply one, two, or all of the following applications.

Apply 0.6 to 0.8 ounces per acre in-furrow or alternatively 2 inches beside and 2 inches below seed or alternatively 3 inches below the seed with a strip till machine at planting.

AND/OR

Apply 0.4 ounces per acre when the plants are in the 4-6 leaf stage.

AND/OR

Apply 0.4 ounces per acre at the 8-10 leaf stage.

NOTE: If seed has been treated with ASCEND WSG, do not apply ASCEND WSG as an in-furrow, band, side dress or mark out application.

WHITE OR RED POTATOES:

Apply 0.6 to 0.8 ounces per acre in a band, mark out, side dress or in-furrow application before or after planting.

NOTE: If seed has been treated with ASCEND WSG, do not apply ASCEND WSG as an in-furrow, band, side dress or mark out application.

For foliar applications, apply according to *one* of the following schedules:

To increase tuber size number and promote better rooting:

1st Application - Apply 0.4 ounces per acre at tuber initiation.

2nd Application - Apply 0.4 ounces per acre 2-3 weeks after the first application. The last application should be during tuber bulking.

OR

To enhance tuber size and uniformity:

1st Application - Apply 0.4 ounces per acre at tuber initiation.

2nd Application - Apply 0.4 ounces per acre at the onset of tuber bulking.

CARROTS, PARSLEY, RADISHES, AND TURNIPS:

1st Application - Apply 0.4 ounces per acre when the plants have 3 true leaves.

2nd Application - Apply 0.4 ounces per acre 2 weeks after the first application.

3rd Application - Apply 0.4 ounces per acre 2 weeks after the second application.

SWEET POTATOES AND YAMS:

1st Application - Apply 0.03 to 0.06 ounces per acre on a band just wide enough to cover all the plants seven to fourteen days after transplanting.

2nd Application - Apply 0.07 ounces per acre in a band as above at twenty-eight days after transplanting.

3rd Application - Apply 0.01 ounces per week along with a foliar fertilizer such as 15-5-5 at the rate of 32 fluid ounces or 1 quart per acre. Continue this program on a weekly basis until the potatoes have desirable harvest size.

NOTE: If seed has been treated with ASCEND WSG, do not apply ASCEND WSG as an in-furrow, band, side dress or mark out application.

FOLIAR SPRAY PROGRAM FOR FRUIT CROPS

BANANAS:

1st Application - Apply 0.4 to 0.8 ounces per acre shortly prior to or at first bloom.

2nd Application - Apply 0.4 to 0.8 ounces per acre two to three weeks after the first application.

CITRUS (GRAPEFRUIT, LEMON, LIME, AND ORANGES):

1st Application - Apply 0.4 to 0.8 ounces per acre at first bloom.

2nd Application - Apply 0.4 to 0.8 ounces per acre two to three weeks later.

If there is an extended bloom period, make additional applications at 0.4 to 0.8 ounces per acre.

GRAPES:

1st Application - Apply 0.4 ounces per acre shortly prior to or at bloom stage.

2nd Application - Apply 0.4 ounces per acre 2 weeks after the first application.

GUAVA AND PAPAYA:

1st Application - Apply 0.4 ounces per acre shortly prior to or at first bloom stage.

2nd Application - Apply 0.4 to 0.8 ounces per acre 2 to 3 weeks after the first application.

POME (APPLE, MAYHAW):

Apply 0.8 ounces per acre starting at pink bud stage and repeat every 7 to 10 days. Do not make more than 5 applications.

STONE (PEACH, CHERRY, APRICOT, NECTARINE):

Apply 0.8 ounces per acre starting at pink bud stage and repeat every 7 to 10 days. Do not make more than 5 applications.

STRAWBERRIES:

1st Application - Apply 0.4 ounces per acre shortly prior to or at first bloom stage.

2nd Application - Apply 0.4 ounces per acre 2 weeks after the first application.

SPRAY PROGRAM FOR FIELD CROPS

ALFALFA: Established

1st Application - Apply 0.4 ounces per acre upon dormancy break. Apply when sufficient re-growth is present.

2nd Application - Apply 0.4 ounces per acre after each cutting. Apply when sufficient re-growth is present.

ALFALFA: Newly Seeded

1st Application - Apply 0.4 ounces per acre when seedling alfalfa is in the 3rd to 4th trifoliate stage.

CANOLA:

- 1st Application - Apply 0.4 ounces per acre between the rosette stage and bolting.
- 2nd Application - Apply 0.4 ounces per acre at 20 percent bloom.
- 3rd Application - Apply 0.4 ounces per acre at early pod fill.

COTTON - Non-Transgenic Varieties: Apply ASCEND WSG according to *one* of the following schedules.

NOTE: If seed has been treated with ASCEND WSG, do not apply ASCEND WSG as an in-furrow, band, side dress or mark out application.

Schedule A:

1st Application - Apply 0.4 ounces per acre in-furrow or alternatively 2 inches beside and 2 inches below seed or alternatively 3 inches below the seed with a strip till machine at planting.

2nd Application - Apply 0.4 ounces per acre at pinhead square. This can be applied in a tank mix that contains 4 fluid ounces per acre of Mepex® Plant Regulator brand of mepiquat chloride¹.

3rd Application - Apply 0.5 ounces per acre at early bloom.

Schedule B:

1st Application - Apply 0.3 ounces per acre on a band at the 3-7 leaf stage.

2nd Application - Apply 0.4 ounces per acre at the pinhead square stage. This can be applied in a tank mix that contains 4 fluid ounces per acre of Mepex® Plant Regulator brand of mepiquat chloride¹.

3rd Application - Apply 0.4 ounces per acre at early bloom.

COTTON - Transgenic Varieties:

(Cotton varieties that have been genetically manipulated to have insect-resistance and/or herbicide-resistance built in.)

NOTE: If seed has been treated with ASCEND WSG, do not apply ASCEND WSG as an in-furrow, band, side dress or mark out application.

1st Application - Apply 0.4 ounces per acre in-furrow or alternatively 2 inches beside and 2 inches below seed or alternatively 3 inches below the seed with a strip till machine at planting.

2nd Application - Apply 0.5 ounces per acre at pinhead square. This can be applied in a tank mix that contains 4 fluid ounces per acre of Mepex® Plant Regulator brand of mepiquat chloride¹.

3rd Application – Repeat the above application at first bloom. If needed for vegetative growth control, repeat the above application at mid-bloom.

Higher rates and/or late season applications may be warranted under high stress conditions where square and/or boll retention is needed. During the bloom and post-bloom period, additional

applications or higher rates can be applied but do not exceed a total of 3.25 ounces per acre per season.

1) TANK MIXING INFORMATION – ASCEND WSG and Mepex

Perform a Compatibility Test for Mix Components before preparing a tank mix application. Read and follow the applicable Restrictions and Limitations and Directions For Use on all products involved in tank mixing. The most restrictive labeling applies to tank mixes.

Compatibility Test

Add components to a jar in the following sequence, using 1/16 teaspoon of ASCEND WSG and 1/2 teaspoon of Mepex.

- 1) Water: For 20 gallons per acre spray volume use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature.
- 2) ASCEND WSG, then Mepex: Cap the jar and invert 10 cycles.
- 3) Let the solution stand for 15 minutes.
- 4) Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. Do not use any spray solution that could clog spray nozzles.

Tank Mixing Order

- 1) Water: Begin by agitating a thoroughly clean sprayer tank half full of the required amount of clean water.
 - 2) ASCEND WSG, then Mepex
 - 3) Remaining quantity of water
- Only moderate agitation should be used while mixing and transporting.

FIELD CORN*: Apply one, two or all of the following applications.

Apply 0.6 to 0.8 ounces per acre in-furrow or alternatively 2 inches beside and 2 inches below seed or alternatively 3 inches below the seed with a strip till machine at planting.

AND/OR

Apply 0.8 to 1.3 ounces per acre at the 3 to 10 leaf stage.

AND/OR

Apply 0.8 ounces per acre between initial silking and brown silk.

NOTE: If seed has been treated with ASCEND WSG, do not apply ASCEND WSG as an in-furrow, band, or side dress application.

FLAX:

- 1st Application - Apply 0.4 ounces per acre when the plant is 2-4 inches tall.
- 2nd Application - Apply an additional 0.4 ounces per acre two to three weeks later.

GRAIN SORGHUM:

- 1st Application - Apply 0.6 to 0.8 ounces per acre in-furrow or alternatively 2 inches beside and 2 inches below seed or alternatively 3 inches below the seed with a strip till machine at planting.
- 2nd Application - Apply 0.4 ounces per acre at the 3-5 leaf stage.
- 3rd Application - Apply 0.4 ounces per acre after the 8th but before the 12th leaf stage.

NOTE: If seed has been treated with ASCEND WSG, do not apply ASCEND WSG as an in-furrow, band, side dress or mark out application.

PEANUTS:

- 1st Application - Apply 0.4 ounces per acre at the 3-5 leaflet stage.
- 2nd Application - Apply 0.4 ounces per acre at early flowering.
- 3rd Application - Apply 0.4 ounces per acre at initial pegging.
- 4th Application - Apply 0.7 ounces per acre during early pod fill.

SOYBEANS: Apply according to *one* of the following schedules.

Schedule A:

Apply 0.4 ounces per acre at the 3-5 trifoliate leaf stage. Apply a second application of 0.4 ounces between R1 and R3.

Schedule B:

Apply 0.8 ounces per acre between R1 and R3.

SUGAR BEETS:

In-Furrow or Mark Out:

Apply 0.6 to 0.8 ounces per acre in-furrow or mark out.

Foliar program:

1st Application - Apply 0.4 ounces per acre between the 2nd and 10th true leaf stage.

2nd Application - Apply 0.4 ounces per acre 2-3 weeks after the first application.

NOTE: If seed has been treated with ASCEND WSG, do not apply ASCEND WSG as an in-furrow, band, side dress or mark out application.

SUGARCANE:

1st Application – Use *one* of the following methods:

Apply 0.3 ounces per acre in the furrow at planting.

OR

Apply 0.4 ounces per acre at the 2-3 leaf stage.

2nd Application - Apply 0.4 ounces per acre one month after emergence.

Additional Applications - Apply 0.4 ounces per acre on monthly intervals throughout the production season for maximum benefit.

SUNFLOWERS:

1st Application - Apply 0.4 ounces per acre at 4-true leaves.

2nd Application - Apply an additional 0.4 ounces per acre two to three weeks later.

WHEAT, BARLEY, OATS, AND RYE: Apply according to *one* of the following schedules.

Schedule A:

Apply 0.6 to 0.8 ounces per acre in-furrow at planting.

Schedule B:

If no at-planting application, apply 0.4 ounces per acre prior to jointing. Apply 0.4 ounces at the flag leaf stage.

NOTE: If seed has been treated with ASCEND WSG, do not apply ASCEND WSG as an in-furrow, band, side dress or mark out application.

FOLIAR SPRAY PROGRAM FOR RICE

Apply ASCEND WSG at 0.4 ounces per acre as a foliar spray to the plant during either one of the following stages of development.

Primary Recommendations - 3 to 7 Leaf Stage: This application must be made after the rice seedling has 3 fully emerged leaves and the 4th leaf is beginning to emerge, but before the seedling has completed development of 7 leaves or 3 tillers. This period for application generally begins about 3-6 weeks after seeding and ends 5-9 weeks after seeding. The duration of this period

depends on the variety and the growing conditions. This application may be made in conjunction with corresponding herbicide applications.

Alternate Recommendation - Two Millimeter (mm) Panicle Growth Stage: If the primary application is missed, ASCEND WSG can be applied to stimulate cell differentiation in the developing panicle. This application must be made when no more than 10% of the main culms are at the 2 mm panicle growth stage. The 2 mm panicle growth stage occurs immediately after internode elongation or joint movement has begun. ASCEND WSG must be applied as soon as internode elongation is detected so the 2 mm panicle growth stage is not missed. It is better to apply slightly early than to apply late. **IMPORTANT:** Timing of the application at 2 mm growth stage is critical. Check the entire field for stage of plant development. Large fields may require split applications on upper and lower ends of the field to ensure proper timing throughout the field.

TURFGRASS

On all turfgrass, regardless of use, use no more than 0.04 ounces per 1,000 square feet per month.

WARM SEASON TURF (Bermuda, Bermuda hybrids, Zoysia, Centipede, St. Augustine, etc.): For lower traffic areas and where ASCEND WSG is used as a maintenance program, begin applications early in the growing season. Apply at the rate of 0.01 to 0.02 ounces per 1,000 square ft. Maintenance application should be made on a two to three week schedule throughout the growing season. Applications can be made with foliarly-applied urea for added benefits.

COOL SEASON TURF (Tall Fescue, Rye, Bentgrass, Bluegrass, etc.): Apply 0.02 ounces per 1,000 square feet in fall, or when stand is established. Repeat application in late winter when grasses begin to grow actively.

APPLICATION WITH FOLIARLY-APPLIED UREA: Maximum benefit and color can be achieved when ASCEND WSG applications are made with foliarly-applied urea solutions. To prepare urea solution, dissolve 46% urea into spray solution at the rate of 1.0 lb. per 5,000 square feet to be sprayed and apply with specified rate of ASCEND WSG.

SPECIFIC RATES OF APPLICATION

TEES AND GREENS: Apply 0.01 to 0.02 ounces per 1,000 square feet on a 2 week schedule throughout the growing season. Begin in early spring after grasses have begun to grow. Sunbelt and transition zones should continue spray program throughout playing season. Courses north of the transition zone should continue applications through September.

FAIRWAYS: Begin applications in early spring as soon as grasses have begun to actively grow. Apply 0.01 ounce per 1,000 square feet and repeat on a monthly schedule as long as grass is growing.

PRE-TOURNAMENT QUICK GREEN-UP: Apply at the rate of 0.01 to 0.02 ounces per 1,000 square feet in conjunction with urea solution 4 to 5 days prior to playing time. Make application with a minimum spray volume of 0.5 gallon of water per 1,000 square feet.

POST-STRESS RECOVERY: Apply 0.01 ounces ASCEND WSG per 1,000 square feet immediately after stressful event. Repeat application 7 to 14 days after initial application to increase root growth and overcome stress.

SPRING DORMANCY BREAK: Apply 0.01 ounce per 1,000 square feet in spring as soon as new growth (opening) is visible. Raking of thatch prior to making this application is most desirable. Application at this time generates rapid growth and often reduces incidence of "spring die back" on certain species of grass.

FALL APPLICATION FOR WINTER HARDINESS: Make 2 applications 7-10 days apart in late summer or early fall just prior to the cessation of normal active growth. Apply 0.01 to 0.02 ounces per 1,000 square feet. Make application with a spray volume of 0.5 gallon of water per 1,000 square feet. Applications at this time will greatly increase root mass and depth of roots. Winter kill problems are often greatly reduced.

COMMERCIAL TURF, CEMETERIES, ATHLETIC FIELDS, GOLF COURSES, AND OTHER FINE TURF AREAS: Applications of 0.01 to 0.02 ounces per 1,000 square feet made at any point during the growing season will produce desirable results. Make applications during the very early growth stages and continue on a regular monthly schedule throughout the growing season. Healthier and more beautiful turf can be realized in high traffic areas such as golf greens and tees by making regular applications every two weeks.

SOD FARMS

Apply 0.6 to 1.1 ounces per acre on a monthly basis during the growing season. Two weeks prior to cutting sod, make an application of 0.6 to 1.1 ounces per acre.

SPECIFIC RATES OF APPLICATION

After sod is cut, a reestablishment program is necessary. Start this program as soon as there is any greening over 30% of the area. Spray with 0.6 to 1.1 ounces per acre of ASCEND WSG. Repeat in 2 weeks and thereafter once per month throughout the growing season. Make a final application of 0.6 to 1.1 ounces per acre 2 weeks before dormancy.

Start the monthly program again as soon as some green-up has started in the spring.

When species started from seed have reached 1 inch in height, the monthly treatment may be started and followed in the same way as non-seeded varieties.

SPECIAL NOTE FOR ALL DIRECT SEEDED GRASSES

Acting through its unique combination of plant growth regulators, ASCEND WSG may be used as a seed dressing that aids in enhancing germination and early season root and top growth.

For every 100 pounds of seed prepare slurry of 0.3 to 0.6 ounces ASCEND WSG with one fluid ounce of water. Thoroughly mix slurry with the seed to insure uniform coverage. Improper coverage will minimize product performance. NOTE: When applying to more than 100 pounds of seed up to 2 ounces of ASCEND WSG can be slurried with one fluid ounce of water.

SEED TREATMENT

SPECIAL NOTE FOR ALL DIRECT SEEDED CROPS

Acting through its unique combination of plant growth regulators, ASCEND WSG may be used as a seed dressing that aids in enhancing germination and early season root and top growth.

For every 100 pounds of seed prepare slurry of 0.1 to 0.6 ounces ASCEND WSG with one fluid ounce of water. Use the higher rate when conditions favor poor germination such as cool soil temperatures or low germination seed. Thoroughly mix slurry with the seed to insure uniform coverage. Improper coverage will minimize product performance. NOTE: When applying to more than 100 pounds of seed up to 2 ounces of ASCEND WSG can be slurried with one fluid ounce of water.

Seed Type				
Alfalfa	Corn	Oats	Rye	Tomatoes
Barley	Cotton	Okra	Sorghum	Wheat
Cabbage	Cucumber	Onions	Soybeans	

Canola	Dry Beans	Peanuts	Spinach	
Carrots	Eggplant	Peas	Squash	
Cauliflower	Lettuce	Peppers	Sugarbeets	
Celery	Melons	Rice	Sunflowers	

NOTE: If seed has been treated with ASCEND WSG, do not apply ASCEND WSG as an in-furrow, band, side dress or mark out application.

RED OR WHITE POTATOES:

Choose *one* of the following methods:

Dip potato seed pieces in a solution of 0.05 ounces per gallon of water for 30 to 60 seconds or spray seed pieces with the above solution so that seed pieces are covered and thoroughly wetted. ASCEND WSG can be used with a fungicide program.

OR

For every 100 pounds of seed pieces prepare slurry of 0.07 to 0.14 ounces (2 g to 4 g) ASCEND WSG with one fluid ounce of water. Treat seed pieces immediately after they have been cut. Apply so that the cut seed pieces are thoroughly covered. ASCEND WSG can be mixed with other seed treatments and carriers such as fir and alder bark to insure uniform coverage. NOTE: When applying to more than 100 pounds of seed pieces up to 2 ounces of ASCEND WSG can be slurried with one fluid ounce of water.

NOTE: If seed has been treated with ASCEND WSG, do not apply ASCEND WSG as an in-furrow, band, side dress or mark out application.

SWEET POTATOES AND YAMS:

Dip potato slips in a solution of 0.05 ounces per gallon of water for 30 to 60 seconds. ASCEND WSG can be used with a fungicide program.

NOTE: If seed has been treated with ASCEND WSG, do not apply ASCEND WSG as an in-furrow, band, side dress or mark out application.

MECHANICAL SEED TREATERS

Apply the appropriate amount of ASCEND WSG to a premeasured amount of seed and mix thoroughly until all seed are uniformly coated. Seed can be treated in this manner and stored until used for planting. Do not use treated seed for food, feed or oil purposes. An approved dye must be added to distinguish ASCEND WSG treated seed and prevent inadvertent use for food, feed or oil purposes. Seed treated with this product must be labeled in accordance with all applicable requirements of the Federal and State seed laws. DO NOT USE TREATED SEED FOR FOOD, FEED OR OIL PURPOSES.

BROADCAST SEED APPLICATION

Partially fill broadcast spreader with a premeasured amount of seed. Apply the appropriate amount of ASCEND WSG, diluted with water at a rate of up to 2 ounces ASCEND WSG per one fluid ounce of water, on the surface of the seed. Mix with a stick or paddle until all seed are coated. Repeat procedure until broadcast spreader is filled. DO NOT USE TREATED SEED FOR FOOD, FEED OR OIL PURPOSES. Treat only those seeds needed for immediate use and planting. Do not store excess treated seed beyond planting time.

ORNAMENTAL PLANTS

ASCEND WSG can be applied to reduce transplant shock and stimulate root growth.

Three application methods are recommended for this program:

1. Dip or spray roots with a solution of 0.1 ounces of ASCEND WSG per gallon of water prior to transplanting.
2. Spray or drench bedding seedlings in flats or pots 12-24 hours before transplanting. Apply a solution of 0.1 ounces of ASCEND WSG per gallon of water.

Media Drench Volume for Individual Pots	
Pot Diameter (inches)	Fluid Ounces of Dilute Solution per Pot
4	2
5	3
6	4
7	5
8	6

3. Make foliar applications of 0.55 to 1.1 ounces of ASCEND WSG per 100 gallons of water. Apply to wet foliage. Make one or two applications, 10 to 14 days apart. Some defoliating plants may re-flush lower foliage, after application.

Consult your Winfield Solutions representative for additional information.

A combination of the transplant and foliar spray program is most effective.

SPECIAL NOTE FOR ALL TRANSPLANTED CROPS

Two methods are recommended for this program:

- A. Dip or spray roots with a solution of 0.1 ounces of ASCEND WSG per gallon of water prior to transplanting.
- B. Bedding seedlings may be sprayed or drenched in flats 12-24 hours before transplanting to reduce transplant shock with a solution of 0.1 ounces of ASCEND WSG per gallon of water. Begin the foliar program two (2) weeks after transplanting. A combination of the transplant and foliar spray program is most effective.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Protect from freezing. Store out of direct sunlight.

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

Container Handling: Nonrefillable container. Do not reuse or refill this container. Completely empty container into application equipment. Then offer for recycling if available or dispose of empty container in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call CHEMTREC 1-800-424-9300.

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