ASCEND®
PLANT GROWTH REGULATOR
Hormone compounds to stimulate plant growth. Concentrations based on biological activity.

**ACTIVE INGREDIENTS:**
- *Cytokinin, as Kinetin* ........................................................................................................ 0.090%
- *Gibberellic Acid* ................................................................................................................ 0.030%
- *Indole Butyric Acid* ............................................................................................................ 0.045%

**OTHER INGREDIENTS:** ........................................................................................................ 99.835%

**TOTAL:** ..................................................... 100.000%

*Contains 0.03 oz. cytokinins/qt.
*Contains 0.015 oz. indole butyric acid/qt.
*Contains 0.01 oz. gibberellic acid/qt.

**FIRST AID**
If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**HOTLINE NUMBER:** In case of medical emergency call 1-877-424-7452.

Read additional precautionary statements found inside booklet.

**SHAKE WELL BEFORE USING.**

**PROOF**

THIS PROOF IS TO BE CHECKED FOR ACCURACY

Please review and approve Text, Spelling, Copy Placement, Size, Shape, Colors, Unwind, and Dieline. **Authorized signature** accepts responsibility for accuracy of all copy, color break and artwork. Cimarron Label is not liable for any discrepancies subsequently identified.

**PLEASE NOTE:** Due to color variance between printers/monitors, the colors represented by this proof cannot be deemed accurate. Please refer to a color matching system such as the Pantone Matching System for a true representation of spot colors. **THIS PROOF IS NOT ACCURATE FOR COLOR-MATCH.**

WE CANNOT PROCESS THIS ORDER WITHOUT AN AUTHORIZED SIGNATURE

☐ ARTWORK IS APPROVED  ☐ REVISED PROOF NEEDED

Signed _____________________________ Date _____________________________

Please Return To:__________________________

4201 North Westport Avenue, Sioux Falls, South Dakota 57107
Phone: (605) 978-0451 • Fax: (605) 978-0463
CAUTION

Precautionary Statements: Hazards to Humans and Domestic Animals

CAUTION

Cautions, eye irritation. Harmful if absorbed through the skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after application. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

Personal Protective Equipment

Mixers, loaders, applicators and other handlers must wear long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves.

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

Environmental Hazards

For temestal 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 rinse.

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 properly trained and certified applicators and handlers may be in the area during application.

If 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, recognition, notification, and other 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 Standards.

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

Exemption: If the product is soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area provided they are not exposed to anything that has been treated. PPE required for entry into 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.

General Chemigation Instructions

Apply this product only through sprinkler 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 incorporate a system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribes safety devices for public water systems 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®. and throughout the application. ASCEND® 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® to add is calculated as the rate in fluid oz. 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 2 fluid ounces per acre, add 10 x 2 = 20 fluid ounces to the supply tank at the beginning of the last full cycle).

Chemigation Systems Connected to Public Water Systems

Public water systems 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 50 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 lines 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 water pump motor stops. 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.

The system 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.

Maintain agitation in the supply tank while adding the required amount of ASCEND® and throughout the application. ASCEND® 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® to add is calculated as the rate in fluid oz. 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 2 fluid ounces per acre, add 10 x 2 = 20 fluid ounces to the supply tank at the beginning of the last full cycle.

Sprinkler Chemigation

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.

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 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.

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

To enhance the performance of the equipment, the irrigation system should be installed in the field of application in such a manner that it will not contribute to water source contamination. For example, the irrigation system should be elevated above the ground using 0.2 to 0.5 gallon of water per 1,000 square feet. The irrigation system should be passed through the crop to ensure proper coverage of the pesticide. To ensure uniform application, the irrigation system should be maintained in the field of application until the pesticide application is completed.

When using the irrigation equipment, the operator should ensure that the equipment is properly maintained and calibrated. The equipment should be inspected and calibrated before each use to ensure proper application.

It is important to note that the use of pesticides in open fields can have negative environmental impacts, including the risk of eutrophication and the potential for groundwater contamination. Therefore, it is crucial to follow all labeling instructions and regulatory requirements to minimize these risks.

Proper application practices are essential to ensure the effective use of pesticides while minimizing environmental harm. This includes the correct application rate, the proper use of protective equipment, and the proper disposal of waste materials. By adhering to these guidelines, the use of pesticides can be made safer and more sustainable.
BEANS and PEAS:
1st Application – Apply 3.2 fluid ounces per acre when the first trifoliate is unfolded.
2nd Application – Apply 3.2 fluid ounces per acre 2 weeks after the first application.

ASPARAGUS, BROCCOLI, CABBAGE, CELERY, LETTUCE, MINT and SPINACH:
1st Application – Apply 3.2 fluid ounces per acre when the first leaf begins to unfold.
2nd Application – Apply 3.2 fluid ounces per acre 2 weeks after the first application.
3rd Application – Apply 3.2 fluid ounces per acre to first bloom.

APPLICATOR:
For maximum benefit, apply continuous applications of 0.8-1.2 fluid ounces per acre at 7-10 day intervals after the first application throughout the production season.

CANTALOUPE, CUCUMBERS, MUSkmelon, WATERMELON, HONEYDEW, DRAKE and SQUASH:
1st Application – Apply 3.2 fluid ounces per acre when the first bloom begins to unfold.
2nd Application – Apply 3.2 fluid ounces per acre 2 weeks after the first application.
3rd Application – Apply 3.2 fluid ounces per acre 2 weeks after the second application.

Notes:
1) Do not apply as an in-furrow, band, side dress or mark out application.
2) Do not use as an in-furrow, band, side dress or mark out application.
3) Do not apply ASCEND® as an in-furrow, band, side dress or mark out application.

CATALOG:
To enhance tuber size and uniformity:
1st Application – Apply 3.2 fluid ounces per acre at tuber initiation.
2nd Application – Apply 3.2 fluid ounces per acre 2-3 weeks after the first application. The last application should be during tuber bulking.

Note:
2nd Application – Apply 3.2 fluid ounces per acre at first bloom.

PEANUTS:
1st Application – Apply 3.2 fluid ounces per acre when the plant is at the 2-leaf stage.
2nd Application – Apply 3.2 fluid ounces per acre 2 weeks after the first application.
3rd Application – Apply 3.2 fluid ounces per acre at the 3-5 leaf stage.

Note:
1) Do not apply ASCEND® as an in-furrow, band, side dress or mark out application.

SWEET CORN and POPCORN:
1st Application – Apply 0.8 fluid ounces per acre to the third leaf.
2nd Application – Apply 3.2 fluid ounces per acre 2 weeks after the first application.
3rd Application – Apply 3.2 fluid ounces per acre at the 8-10 leaf stage.

Notes:
1) Do not apply ASCEND® as an in-furrow, band, side dress or mark out application.

GRAIN SORGHUM:
1st Application – Apply 4.5 to 6 fluid 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 3.2 fluid ounces per acre 2 weeks after the first application.

Notes:
1) Do not apply ASCEND® as an in-furrow, band, side dress or mark out application.

SUGAR BEETS:
1st Application – Apply 3.2 fluid ounces per acre at first bloom.
2nd Application – Apply 3.2 fluid ounces per acre 2-3 weeks after the first application.

Note:
1) Do not apply ASCEND® as an in-furrow, band, side dress or mark out application.

CARAMELIZED SUGAR:
1st Application – Apply 3.2 fluid ounces per acre when the third leaf begins to unfold.
2nd Application – Apply 3.2 fluid ounces per acre 2 weeks after the first application.
3rd Application – Apply 3.2 fluid ounces per acre 2 weeks after the second application.

Note:
1) Do not apply ASCEND® as an in-furrow, band, side dress or mark out application.

COTTON – TRANSGENIC VARIETIES:
If seed has been treated with ASCEND®, do not apply ASCEND® as an in-furrow, band, side dress or mark out application.

COTTON – NON-TRANSGENIC VARIETIES:
Apply according to the following schedules:
1st Application – Apply 4.5 to 6 fluid 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 3.2 fluid ounces per acre 2 weeks after the first application.
3rd Application – Apply 3.2 fluid ounces per acre at first bloom.
4th Application – Apply 4.8 fluid ounces per acre during early pod fill.

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

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APPLICATION WITH FOLIARLY-APPLIED UREA:

Maintenance application should be made on a 2- to 3-week schedule throughout the growing season. Applications can be made with foliarly-applied urea as a maintenance program, begin applications early in the growing season. Apply at the rate of 0.1 to 0.15 fluid ounces per 1,000 square feet.

For turfgrass, regardless of use, use no more than 0.3 fluid ounces per 1,000 square feet per month.

FOLIAR SPRAY PROGRAM FOR RICE

ASCEND® should be applied as 3.2 fluid ounces per acre as a foliar spray to the plant during either one of the following stages of development.

1. 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 – 2 Millimeter (mm) Panicle Growth Stage: If the primary application is missed, ASCEND® can be applied to stimulate tillering in the developing panicles. This application must be made when no more than 10% of the rice plants have 2 mm panicle growth stage. This 2 mm panicle growth stage occurs immediately after internode elongation or joint movement has begun. ASCEND® must be applied as soon as possible; internode elongation and seedling 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 turfgrasses, regardless of use, use no more than 0.3 fluid ounces per 1,000 square feet per month.

WARM SEASON TURF (Bermuda, Bermuda hybrids, Zoysia, Centipedes, St. Augustine, etc.): For lower traffic areas and where ASCEND® is used as a maintenance program, begin applications early in the growing season. Apply at the rate of 0.1 to 0.15 fluid ounces per 1,000 square feet. Maintenance application should be made on a 2- to 3-week schedule throughout the growing season. Applications can be made with foliarly-applied urea at beneficial rates.

COOL SEASON TURF (Tall Fescue, Rye, Bentgrass, Bluegrass, etc.): Apply 0.15 fluid ounces per 1,000 square feet in fall, or when stand is established. Repeat applications to maintain a weed-free, healthy turf.

APPLICATION WITH FOLIARLY-APPLIED UREA: Maximum benefit and color can be achieved when ASCEND® applications are made with foliarly-applied urea solutions. To prepare a 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®.

SPECIFIC RATES OF APPLICATION

TEES and GREENS: Apply 0.1 to 0.15 fluid ounces per 1,000 square feet per week throughout the growing season. Begin in early spring after grasses have begun to grow. Surfball and transition zones should continue spray program throughout growing 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 0.1 fluid ounce per 1,000 square feet per week and repeat on a monthly schedule as long as grass is growing.

PRE-TOURNAMENT QUICK GREEN-UP: Apply at the rate of 0.1 to 0.15 fluid ounces per 1,000 square feet in conjunction with urea solution 4 to 5 days prior to play. Make application with a minimum spray volume of 0.5 gallon of water per 1,000 square feet.

SPRING DORMANCY BREAK: Apply 0.1 fluid 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 0.1 to 0.15 fluid ounces per 1,000 square feet. Make application during the early growing season 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 4-8 fluid ounces per acre on a monthly basis during the growing season. Two weeks prior to cutting sod, make an application of 4 to 8 fluid ounces per acre.

SPECIAL 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 4 to 8 fluid ounces per acre of ASCEND®. Repeat in 2 weeks and thereafter once per month throughout the growing season. Make a final application of 4 fluid ounces per 2 weeks before dormancy.

Start the monthly program again as soon as any green-up has started in the spring. When species start from seed have reached 1 inch in height, the monthly treatment may be started and followed in the same way as non-seeded varieties.

SPECIFIC NOTE FOR ALL DIRECT SEEDED GRASSES

Acting through its unique combination of plant growth regulators, ASCEND® is a ready-to-use seed dressing that aids in enhancing germination and early season root and top growth.

ASCEND® can be used at the rate of 2 to 4 fluid ounces per 100 pounds of seed. Sufficient water needs to be added to ensure uniform coverage. Improper coverage will minimize product performance.

SEED TREATMENT

SPECIAL NOTE FOR ALL DIRECT SEEDED CROPS

Acting through its unique combination of plant growth regulators, ASCEND® is a ready-to-use seed dressing that aids in enhancing germination and early season root and top growth.

Use ASCEND® at the rate of 1 to 4 fluid ounces per 100 lbs. of seed. Use the higher rate when conditions favor poor germination such as cool soil temperatures or poor germination seed. Sufficient water needs to be added to ensure uniform coverage. Improper coverage will minimize product performance.

RED OR WHITE POTATOES:

Choose one of the following methods:

1. Dip potato slips in a solution of 1 part 36% ASCEND® to 375 parts water (0.34 fl. oz. per gallon) for 30 to 60 seconds or spray seed pieces with the above solution so that seed pieces are covered and thoroughly wetted. ASCEND® can be used with a fungicide program.

2. Use 0.5 oz. to 1.0 oz. (volumetric measurement), which produces 8 grams to 16 grams on a dry basis of ASCEND® per 100 lbs. of cut seed. Treat seed pieces immediately after they have been cut. Apply so that the cut seed pieces are thoroughly covered. ASCEND® can be mixed with other seed treatments and carriers such as 4% and after back to ensure uniform coverage.

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

MECHANICAL SEED TREATER

Apply the appropriate amount of ASCEND® to a premixed 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 dry mix must be added to distinguish ASCEND® 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 premixed amount of seed. Apply the appropriate amount of ASCEND® diluted with water on the surface of the seed. Mix with a splicer or selerdly 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.

SPECIAL NOTE FOR ALL TRANSPLANTED CROPS

Two methods are recommended for this program:

A. Dip sprout roots with a solution of 0.75 fluid ounces of ASCEND® 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 0.75 fluid ounces of ASCEND® per gallon of water.

Begin the fall program two (2) weeks after transplanting. A combination of foliar treatment and broadcast foliar spray may be effective.
STORAGE AND DISPOSAL

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

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

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

Container Disposal: Use label language appropriate for container size and type.

Nonrefillable containers: Do not reuse or refill this container. Clean container promptly after emptying.

Nonrefillable container equal to or less than 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable container greater than 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Tip the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refill is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour rinsate into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Then offer for recycling or reconditioning or puncture and dispose of 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.

WARRANTY DISCLAIMER

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