RESTRICTED USE PESTICIDE
Due to Ground and Surface Water Concerns and Oncogenicity

For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator’s certification.

This product is a restricted use herbicide due to ground and surface water concerns and oncogenicity concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground and surface water.

A preemergence herbicide for control of annual grass and broadleaf weeds in field corn, production seed corn, silage corn, sweet corn, and popcorn.

ACTIVE INGREDIENTS:
- acetochlor: 2-chloro-2’-methyl-6’-ethyl-N-ethoxymethylacetanilide ........... 43.4%
- atrazine: [2-chloro-4-(ethylamino)-6-(isopropylamino)-s-triazine] and related triazines .................................................. 16.3%

OTHER INGREDIENTS: .......................................................... 40.3%

TOTAL ......................................................... 100.0%

Contains 4 pounds acetochlor and 1.50 pounds atrazine active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION—PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Refer to inside of label booklet for Precautionary Statements and for Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY at end of label booklet. If terms are not acceptable, return at once unopened.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA REG. NO. 34704-952
EPA EST. NO. 34704-MS-1

NET CONTENTS 1 GAL. (3.78 L)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes Moderate Eye Irritation • Harmful If Swallowed

Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

Some materials that are chemical resistant to this product are polyethylene and polyvinylchloride. If you want more options, follow instructions for category A on an EPA chemical-resistance selection chart.

Mixers, loaders, applicators and other handlers must wear:
- Coveralls over long-sleeved shirt and long pants,
- Chemical-resistant gloves,
- Chemical-resistant headgear (if overhead exposure),
- Chemical-resistant apron when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate.

See Engineering Controls for additional requirements.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. Do not reuse them. Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls: When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:
- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.
- Remove clothing/PPE 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.

FIRST AID

If swallowed:
- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. 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 apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Atrazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable, i.e., well drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

Acetochlor has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion.

Do not apply to the following soils if groundwater depth is 30 feet or less: sand with less than 1% organic matter; loamy sand with less than 2% organic matter; or sandy loam with less than 1% organic matter.

This product must not be mixed or loaded, or used within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unrooted pad shall be of sufficient capacity.
to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. Additional state-imposed requirements regarding well-head setbacks and operational area containment must be observed.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

**ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW.** Before using this product, you must consult the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be accessed through www.atrazine-watershedinfo.org or 1-888-365-3014. If use of this product is prohibited in your watershed, you may return unopened product to your point of purchase or contact Loveland Products, Inc. for a refund.

Do not apply this product in a way that will contact workers or other persons, either directly or by drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the 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 agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of other 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 (PPE), and restricted-entry interval. 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 12 hours.

**Exception:** If the product is soil-injected or 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,**
- **Chemical-resistant gloves made of any waterproof material,**
- **Chemical-resistant footwear plus socks,**
- **Protective eyewear**

**GENERAL INFORMATION**

For use only on field corn, production seed corn, silage corn, sweet corn and popcorn. Corn in this label refers to: field corn, production seed corn, silage corn, sweet corn and popcorn.

Cadence® Lite Atz herbicide is a unique combination of the herbicides acetochlor and atrazine plus the antidote or safener, dichlormid. While the acetochlor and atrazine provide weed control, the dichlormid safens corn against herbicide injury. Cadence® Lite Atz may be applied to the surface or incorporated into the top 1-2 inch layer of soil. It is recommended for control alone, or in tank mix combinations, for the weeds listed in the "Target Weeds" section of these use directions. Cadence® Lite Atz controls weeds by interfering with normal germination and seedling development. Cadence® Lite Atz does not control established or germinated weeds present at application.

**USE RESTRICTIONS**

- **This product may not be mixed or loaded within 50 ft. of intermittent streams and rivers, natural or impounded lakes and reservoirs.** This product may not be applied by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet of impoundments and reservoirs. If this product is applied to highly erodible land, the 66-foot buffer or setback from runoff entry points must be planted to crop, seeded with grass or other suitable crop.

- **Tile-Outletted Fields Containing Standpipes**

To ensure protection of surface water from runoff through standpipes with tile-outlets in terraced fields, one of the following restrictions must be used in applying this product to tile-outletted fields containing standpipes:

1. Do not apply this product within 66 feet of standpipes in tile-outletted terraced fields.
2. Apply this product to the entire tile-outletted field and immediately incorporate it to a depth of 2-3 inches in the entire field.
3. Apply this product to the entire tile-outletted terraced field under a no-till practice only when high crop residue management practices are used. High crop residue management is described as a crop management practice where little or no crop residue is removed from the field during or after crop harvest.

**Chemigation:** Do not apply this product through any type of irrigation system.

**Do not use flood irrigation to apply or incorporate this product.**

- **Product must be used in a manner that will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.**
- **Do not apply under conditions that favor runoff or wind erosion of soil containing this product to non-target areas. To prevent off-site movement due to runoff or wind erosion:**
  - Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.
  - Do not apply to impervious substrates such as paved or highly compacted surfaces or frozen or snow covered soils.
  - Do not use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least ½ inch of rainfall has occurred between application and the first irrigation.

**Aerial Application:** Do not apply this product using aerial application equipment.

- Do not apply when wind conditions favor drift to non-target sites. To minimize spray drift to non-target areas:
  - Use low-pressure application equipment capable of producing a large droplet spray.
  - Do not use nozzles that produce a fine droplet spray.
  - Minimize drift by using sufficient spray volume to ensure adequate coverage with large droplet size sprays.
  - Keep ground-driven spray boom as low as possible above the target surface.
  - Make application when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid application when gusts approach 15 mph.
  - Low humidity and high temperatures increase the likelihood of spray drift to sensitive areas. Avoid spraying during conditions of low humidity and/or high temperatures. Do not apply during inversion conditions.

**Maximum Application Rates:**

- Maximum broadcast application rates for corn must be as follows:
  - If no atrazine was applied prior to corn emergence, apply a maximum of 2 pounds active ingredient per acre broadcast. If postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 pounds active ingredient per acre per calendar year.
  - Apply a maximum of 2.0 pounds active ingredient per acre as a single pre-emergence application is made on soils that are not highly erodible or on highly erodible soil if at least 30% of the soil is covered with plant residues, or
  - Apply a maximum of 1.6 pounds active ingredient per acre as a single pre-emergence application on highly erodible soils if less than 30% of the soil is covered with plant residues; or
  - 2.0 pounds active ingredient per acre if only postemergence.

**Preharvest Interval:** Do not apply Cadence® Lite Atz within 60 days of harvest for forage uses. Postemergence applications of atrazine to corn must be made before the crop reaches 12 inches in height.

**GENERAL USE PRECAUTIONS**

- Failure to strictly follow label directions may result in exceeding the maximum annual atrazine use rates as stipulated by the Environmental Protection Agency.

**Note:** This product contains atrazine and thus may not control weeds that are known or suspected to be triazine resistant. Following many years of continuous use of atrazine and chemically related products, biotypes of some of the weeds listed on this label have been reported which cannot be effectively controlled by atrazine and related herbicides. Where this is known or suspected and weeds controlled by atrazine are expected to be present along with resistant biotypes, it is recommended that atrazine be used in combinations or in sequence with other registered herbicides which are not triazines. If only resistant biotypes are expected to be present, use a registered non-triazine herbicide.

- Do not use Cadence® Lite Atz on any crop other than field corn, production seed corn, silage corn, sweet corn and popcorn.
- **Cadence® Lite Atz should not be used on corn seed stock such as Breeders, Foundation, or Increase.**
- Do not contain irrigation water used for crops other than corn or water used for domestic purposes.
- Do not apply Cadence® Lite Atz before pre-irrigation in irrigated areas.
- Do not allow Cadence® Lite Atz to contaminate feed or food.
- **Cadence® Lite Atz should not be stored near seeds, fertilizers, or foodstuffs.**
- All containers of Cadence® Lite Atz should be kept tightly closed when not in use.
- Applied according to directions and under normal growing conditions, Cadence® Lite Atz will not harm the treated crop. During germination and early stages of growth, extended periods of unusually cold and wet or hot and dry weather, insect or plant disease attack, carryover pesticide residues, the use of certain soil applied systemic insecticides, improperly placed fertilizers or soil insecticides may create abnormal conditions that weaken crop seedlings. Cadence® Lite Atz used under these abnormal conditions could result in crop injury.
Rotational Crop Restrictions:
When tank mixing with other herbicides, follow the most restrictive crop rotation guide- lines on the label of each product used. The following rotational crops may be planted as indicated:

<table>
<thead>
<tr>
<th>Rotational Crop (1)</th>
<th>Timing or Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>corn</td>
<td>Anytime - 0 months after application</td>
</tr>
<tr>
<td>sorghum, soybeans</td>
<td>Spring following application</td>
</tr>
<tr>
<td>alfalfa, barley, dry beans (3), lupin (4), millet, pear or proso, oats, pea (6), potatoes, rye, sugar beets, sunflower, tobacco (7), triticale, wheat, wild rice</td>
<td>15 months after application (3)</td>
</tr>
</tbody>
</table>

Numbers within parentheses (-) in the table refer to Specific Rotational Crop Requirements below.

(1) If crop treated with Cadence* Lite Atz is lost, corn may be replanted immediately.
Do not make a second application of Cadence* Lite Atz. Do not rotate to crops other than corn, soybeans, sorghum, tobacco and wheat. Do not apply Cadence* Lite Atz after June 10, unless only corn will be planted the following year.
(2) Due to the risk of atrazine carryover, injury to soybeans may occur the year following corn when planted in north central and northwest Iowa, south central and southwest Minnesota, northern Nebraska and southeast South Dakota on soils having a calcareous surface layer and relatively high pH.
(3) Dry beans includes: adzuki, kidney, lima, navy, pinto
(4) Lupin includes: grain, white, white sweet
(5) Approved rotation crops list does not include any species of succulent beans and peas.
(6) Pea includes: blackeyed, chick, cow, Crowder, field, pigeon, Southern
(7) Because of atrazine carryover, injury may occur to tobacco.

APPLICATION DIRECTIONS - CORN

Carriers

Liquid: Either water or liquid fertilizers such as solutions, slurries or suspensions may be used as liquid carriers. If fluid fertilizers are used, a physical compatibility test with these must be done before combining in the spray tank. See Appendix I for details of the compatibility testing procedure. Even if Cadence* Lite Atz is physically compatible with a fluid fertilizer, constant agitation is necessary to maintain a uniform mixture during application.

Dry Bulk Fertilizer: Cadence* Lite Atz may be impregnated on dry bulk fertilizer and applied as the fertilizer is spread. See Appendix II for details including which fertilizers are compatible.

Adding to Spray Tank
The spray tank must be clean, thoroughly rinsed and decontaminated before adding either Cadence* Lite Atz alone or with tank mix combinations. If water is used as the carrier, use clean water.

Used Alone: When Cadence* Lite Atz is used alone, add the specified amount to the spray tank when the tank is half filled with carrier, then add the rest of the water or fluid fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

Tank Mixed: If a tank mixture is used, it is recommended that a compatibility test be done before actual tank mixing. See Appendix I for details on the procedure for such a test.

Once compatibility is confirmed for the tank mix, fill the tank half full of carrier. Start and continue agitation throughout mixing. All return lines to the spray tank must discharge below the liquid level. Add components in the following order of formulation:

- If a wettable powder or dry flowable formulation is used, make a slurry with water and add it slowly through the screen into the tank. Agitate during the procedure.
- If a flowable formulation is used, add slowly through screen into the tank. Mixing and compatibility may be improved when the flowable is diluted with water before adding to the tank.
- Add Cadence* Lite Atz next.
- Add ammonium sulfate then Glyphomax Plus herbicide, 2,4-D herbicide, and a nonionic surfactant last, if needed.
- Complete filling the sprayer tank and continue agitation.
- Batches should be mixed and applied the same day.

Volume
Liquid: Use a minimum of 10 gallons per acre in broadcast boom equipment for ground application.

Dry Bulk Fertilizer: Use a minimum of 200 pounds of dry bulk fertilizer per acre. See Appendix II for more details.

Pressure
If liquid carriers are used, the pressure at the nozzle should be 15 to 40 psi to ensure good distribution in the spray pattern. Use appropriate nozzles and 50-mesh or coarser screens, if needed. Maintain sufficient agitation to ensure the mixture is suspended in the spray tank.
Use Rates in Conventional Tillage Systems

Table 2: Cadence® Lite Atz Use Rates (qt/acre) by Soil Texture and Organic Matter Content in Conventional Tillage Systems.

The following use rates are for preplant incorporated, preemergence, and early postemergence applications. Consult Table 3 if no-till applications are made or the product is applied more than 14 days prior to planting under conventional tillage.

<table>
<thead>
<tr>
<th>Soil Organic Matter Content</th>
<th>Fine</th>
<th>Medium</th>
<th>Coarse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic Matter: If the organic matter content of the soil is at the lower end of the range, use the lower rates in the rate range provided in Table 2. If the organic matter content is at the upper end of the range, use the higher rates.</td>
<td>1.9 - 3.0</td>
<td>1.9 - 2.1</td>
<td>1.8 - 2.0</td>
</tr>
</tbody>
</table>

Table 3: Cadence® Lite Atz Use Rates † (qt/acre) by Soil Texture in Reduced or No-Tillage Systems

<table>
<thead>
<tr>
<th>Time Of Application Relative To Planting</th>
<th>Coarse</th>
<th>Medium</th>
<th>Fine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less Than 14 Days Before Planting</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Before Planting or After Planting</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>But Prior to Corn Emergence</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>After Planting and/or Corn Emergence</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 4: Weeds Controlled or Partially Controlled by Cadence® Lite Atz at Recommended Use Rates.

Grasses and Sedges | C = Control PC = Partial Control Broadleaves | C = Control PC = Partial Control
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>barnyardgrass</td>
<td>C</td>
<td>pigweed, common</td>
</tr>
<tr>
<td>crabgrass spp.</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>crowfootgrass</td>
<td>C</td>
<td>pigment</td>
</tr>
<tr>
<td>cupgrass, southwestern</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>cupgrass, woolly</td>
<td>C</td>
<td>PC</td>
</tr>
<tr>
<td>foxtail, giant</td>
<td>C</td>
<td>kochia</td>
</tr>
<tr>
<td>foxtail, green</td>
<td>C</td>
<td>lambquarters, common</td>
</tr>
<tr>
<td>foxtail, robust (purple, white)</td>
<td>C</td>
<td>common ragweed, giant</td>
</tr>
<tr>
<td>foxtail, yellow</td>
<td>C</td>
<td>nightshade, black</td>
</tr>
<tr>
<td>goosegrass</td>
<td>C</td>
<td>nightshade, hairy</td>
</tr>
<tr>
<td>johnsongrass, seeding</td>
<td>C</td>
<td>pigweed, redfoot</td>
</tr>
<tr>
<td>millet, foxtail</td>
<td>C</td>
<td>purslane, common</td>
</tr>
<tr>
<td>millet, wild proso</td>
<td>PC</td>
<td>pulsatilla, Florida</td>
</tr>
</tbody>
</table>

Grasses and Sedges | C = Control PC = Partial Control Broadleaves | C = Control PC = Partial Control
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>nutterse, yellow (1,2)</td>
<td>C</td>
<td>ragweed, common</td>
</tr>
<tr>
<td>panicum, browntop</td>
<td>C</td>
<td>PC</td>
</tr>
<tr>
<td>panicum, fall</td>
<td>C</td>
<td>akleipod, common</td>
</tr>
<tr>
<td>panicum, Texas</td>
<td>C (3)</td>
<td>sida, prickly</td>
</tr>
<tr>
<td>rice, red</td>
<td>C</td>
<td>smartweed spp.</td>
</tr>
<tr>
<td>sandbur, field</td>
<td>PC</td>
<td>velvetleaf (2)</td>
</tr>
<tr>
<td>shattercane</td>
<td>PC</td>
<td>PC</td>
</tr>
<tr>
<td>signalgrass, broadleaf</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>sprangletop, red</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>witchgrass</td>
<td>C</td>
<td>C</td>
</tr>
</tbody>
</table>

(1) For best control of yellow nutsedge use preplant incorporation or tank mix with additional Surpass EC or atrazine.
(2) Activity may be reduced under dry conditions or following early (more than 14 days) preplant applications. Sequential herbicides or additional atrazine may be needed for complete control.
(3) Best control is achieved when Cadence® Lite Atz is applied within 5 days of planting and rainfall occurs shortly after application or mechanical incorporation is used to activate the herbicide. If rainfall does not occur within 7 days after application, shallow cultivation will enhance activity. Excessive rainfall after application may reduce control. Under adverse weather conditions and/or heavy infestations, a cultivation or follow-up herbicide may be needed.

**CAUTION**規模** Lite ATZ TANK MIX COMBINATIONS**

When tank mixing or sequentially applying atrazine or products containing atrazine to corn, the total pounds of atrazine applied (lb ai/A) must not exceed 2.5 pounds of active ingredient per year.

Use of Spray Adjuvants

Cadence® Lite Atz is a preemergence herbicide for which spray adjuvants have little or no effect on performance. However, several herbicides used in tank mixtures with Cadence® Lite Atz require use of adjuvants to aid in the burndown of emerged weeds. Use only those adjuvants recommended on tank mix product labels and approved for agricultural crop use. Adjuvants and/or low rate liquid fertilizers (28%, 30% or 32% UAN) or ammonium sulfate (AMS) may be used with tank mixes applied preplant or preemergence to the crop. Note: Do not use liquid fertilizer as the carrier when Cadence® Lite Atz is applied postemergence to corn as severe injury may result. The addition of liquid fertilizers used as adjuvants with Cadence® Lite Atz tank mixes applied postemergence to corn under environmental stress conditions may result in significant crop injury and should be avoided if the risk of crop injury is unacceptable.

Preemergence Tank Mix Combinations

Tank mix combinations may be used in either conventional, reduced or no-till systems and be applied by the same methods and at the same timings as Cadence® Lite Atz unless otherwise specified in the tank mix product label.

When tank mixing Cadence® Lite Atz with atrazine, do not exceed the maximum allowable rate of atrazine in your county or state. In some atrazine management areas, atrazine is more restricted. Consult your county extension office or state university for further information.

Conventional Tillage Corn (Cadence® Lite Atz Plus):

<table>
<thead>
<tr>
<th>Tank Mix Herbicide †</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>atrazine 4L</td>
<td>• Preplant surface, preplant incorporated, preemergence. If emerged weeds are greater than 1.5 inches tall at the time of application, add an appropriate postemergence herbicide • Longer growing season areas • High rainfall areas • Heavy broadleaf weed pressure</td>
</tr>
<tr>
<td>Balance Pro</td>
<td>• Not labeled in all states; please refer to Balance Pro label for precautionary statements, directions for use, geographic and other restrictions • Field corn only • Refer to the use rates section for Cadence® Lite Atz for minimum use rates</td>
</tr>
<tr>
<td>Helm® WDG shattercane</td>
<td>• Tank mixing 3.0 - 4.0 oz/acre Helm WDG shattercane provides consistent control of velvetleaf, lambsquarters, pigweed species, waterhemp and triazine resistant varieties of these species. Will also provide improved control of cocklebur, common ragweed, giant ragweed, common sunflower and jimsonweed.</td>
</tr>
<tr>
<td>Princep 4L</td>
<td>• Improve crabgrass or tall fescue control.</td>
</tr>
<tr>
<td>Python® WDG</td>
<td>• Tank mixing 0.8 - 1.0 oz/acre Python® WDG herbicide provides consistent control of velvetleaf, lambsquarters, pigweed species, waterhemp and triazine resistant varieties of these species.</td>
</tr>
<tr>
<td>Surpass EC</td>
<td>• Tank mix 1% prazosulfuron for enhanced grass and nutsedge control</td>
</tr>
</tbody>
</table>

† Formulations that are not listed may be used: Perform a compatibility test and check the label of the tank mix product label for application rates, applicable use directions, precautions and limitations.
Reduced or No-Tillage Corn (Cadence® Lite Atz Plus):

<table>
<thead>
<tr>
<th>Tank Mix Herbicide</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atrazine 4L</td>
<td>• Longer growing season areas</td>
</tr>
<tr>
<td>• High rainfall areas</td>
<td></td>
</tr>
<tr>
<td>• Heavy broadleaf weed pressure</td>
<td></td>
</tr>
<tr>
<td>• If emerged weeds are greater than 1.5 inches tall at the time of application, add an appropriate postemergence herbicide</td>
<td></td>
</tr>
</tbody>
</table>

| Balance Pro | • Not labeled in all states; refer to the label for Balance Pro label for precautionary statements, directions for use, geographic and other use restrictions |
| • Field corn only |
| • Refer to use rate section for Cadence® Lite Atz for minimum use rates |

Barvel/Clarity Markman

• Apply preplant or preemergence in reduced/no-till systems for burial of emerging weeds |
• Preemergence on all soils; medium and fine textured with >2% OM |

Glyphoxin Plus, Roundup Ultra Touchdown

• Burndown existing weeds |

Gramoxone Max

• Control annuals, suppress perennials |

Pendimax® / Prowl

• Preemergence to early postemergence (up to 3" tall corn) but before weeds are more than 1" tall |

Touchdown

• Burndown existing weeds |

Postemergence Tank Mix Combinations

Cadence® Lite Atz may be applied before, with, or following the use of one or more of the following herbicides: 2,4-D Est, Accent, Aim, atrazine, Barvel, Basis Gold, Beacon, Buctril, Buctril/atrazine, Clarity, Distinct, Exceed, Hornet WDG, Liberty, Lightning, Markman, Peak, Permit, Princep, Prowl, Pendimax, Pursuit, Resource, Spirit, and Steadfast. Refer to the tank mix product label(s) regarding use directions, precautions, and restrictions, and the list of weeds controlled. Cadence® Lite Atz may be tank mixed with any product approved for use on corn unless it is prohibited on the tank mix product label. Note: Do not use liquid fertilizer as the carrier when Cadence® Lite Atz is applied postemergence to corn as severe injury may result. The addition of liquid fertilizers used as adjuvants with Cadence® Lite Atz tank mixes applied postemergence to corn under environmental stress conditions may result in significant crop injury and should be avoided if the risk of crop injury is unacceptable.

When tank mixed, refer to the tank mix product label and follow the additional use directions given in this table:

Cadence® Lite Atz can be applied to corn up to 11" tall.

Postemergence Tank Mixes (Cadence® Lite Atz Plus):

<table>
<thead>
<tr>
<th>Tank Mix Herbicide</th>
<th>Rate</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hornet WDG</td>
<td>2.5 oz/acre</td>
<td>Always add NIS at 0.25% v/v or COC at 1% v/v.</td>
</tr>
<tr>
<td>Aim herbicide</td>
<td>0.3 oz/acre</td>
<td>Always add a NIS at 0.25% v/v.</td>
</tr>
<tr>
<td>Barvel Clarity Markman</td>
<td>0.5 - 1.0 pt/acre</td>
<td>Early postemergence up to 8&quot; tall corn on all soils. If grasses are more than 2-leaf stage, combine with another herbicide to control these weeds.</td>
</tr>
<tr>
<td>Basis Gold</td>
<td>0.5 - 1.0 pt/acre</td>
<td>Early postemergence up to 8&quot; tall corn on all soils. If grasses are more than 2-leaf stage, combine with another herbicide to control these weeds.</td>
</tr>
<tr>
<td>Buctril Buctril/atrazine</td>
<td>1.5 pt/acre</td>
<td>Refer to product label for use directions.</td>
</tr>
<tr>
<td>Shotgun herbicide</td>
<td>2 - 3 pt/acre</td>
<td>Refer to label for Shotgun herbicide for timing and use directions.</td>
</tr>
<tr>
<td>Atrazine</td>
<td>0.5 - 2.0 b/a/acre</td>
<td>Preplant surface, preplant incorporated, preemergence or early postemergence (up to 8&quot; tall corn). If emerged weeds are greater than 1.5 inches tall at the time of application, add an appropriate postemergence herbicide.</td>
</tr>
<tr>
<td>Note: The maximum atrazine application rate for corn is 2.5 pounds atrazine active ingredient per acre per calendar year.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distinct</td>
<td>4.0 - 6.0 oz/acre</td>
<td>Always add a NIS at 0.25% v/v and 1.25% UAN.</td>
</tr>
<tr>
<td>Can be applied up to 10-inch corn.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exceed</td>
<td>1.0 oz/acre</td>
<td>Always add crop oil concentrate at 1% v/v.</td>
</tr>
<tr>
<td>Liberty</td>
<td>16 - 28 oz/acre</td>
<td>Fine 1.4 - 1.6 2.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medium 1.4 - 1.6 1.9 - 2.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coarse 1.4 1.8</td>
</tr>
<tr>
<td>Lightning</td>
<td>1.28 oz/acre</td>
<td>Fine 1.4 - 1.6 2.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medium 1.4 - 1.6 1.9 - 2.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coarse 1.4 1.8</td>
</tr>
</tbody>
</table>

APPENDIX I

Procedure for Testing the Compatibility of Cadence® Lite Atz and Tank Mixes with Fluid Fertilizers.

Since fluid fertilizers vary, the following procedure is suggested for determining whether Cadence® Lite Atz may be combined with a specific fluid fertilizer for spray tank application.

Materials Needed:
• Cadence® Lite Atz and any tank mix products. |
• Fluid fertilizer to be used. |
• Adjuvant for fertilizer tank mix: Use any adjuvant cleared for use on growing crops under 40 CFR 180.1001 to improve the compatibility of Cadence® Lite Atz with fluid fertilizers. The adjuvant that provides the best emulsification depends on the specific fertilizer under consideration. |
• Two 1 quart, wide mouth glass jars with lid or stopper. |
• Measuring spoon a (25 ml pipette or graduated cylinder provides more accurate measurement). |
• Measuring cup, 8 ounces (257 ml). |

Procedure:
1. Pour a pint (about 473 ml) of the fluid fertilizer into each of the quart jars. |
2. Add Cadence® Lite Atz and any tank mix combination to the jars. The order of addition is wettable powders first with mixing, followed by flowables with mixing and the EC’s last. The rate of wettable powders and dry flowables is 1½ teaspoon per pound of product per acre to be applied. EC’s should be added at the rate of ¼ teaspoon per pint per acre to be applied. Premixing the wettable powders in 1 ounce of water before adding to the pint of fluid fertilizer will improve the compatibility of the final mixture. |
3. Add ½ teaspoon (2 ml) adjuvant to one of the jars, label it as “with”, and mix. The rate of ½ teaspoon per pint is equal to 3 pints of adjuvant per 100 gallons of fluid fertilizer. |
4. Close both jars with lids or stoppers and mix the contents by turning the jars upside down ten times. |
5. Inspect the surface and body of the mixtures: (a) Immediately after completing the jar inversions (b) After allowing the jars to stand quietly for 30 minutes (c) And then again after turning the jars upside down 10 times after the 30 minute inspection |

Evaluation: If either mixture remains uniform for 30 minutes, the combination may be used. Should either mixture separate after 30 minutes, but readily remix uniformly with 10 jar inversions, the mixture can be used if adequate agitation is maintained in the tank. If the mixture with adjuvant is satisfactory but the mixture without adjuvant is not, be sure to use...
the adjuvant in the spray tank. Add the adjuvant first at a rate of 3 pints per 100 gallons of fluid fertilizer. Foaming may be minimized by using only moderate agitation. If non-dispersible oil, sludge, or clumps of solids form in the mixtures, the combination should not be used.

**APPENDIX II**

**Dry Bulk Fertilizer Impregnation**

Impregnation of bulk fertilizer is restricted to commercial facilities. On-farm fertilizer impregnation is prohibited. No more than 500 tons of bulk fertilizer can be impregnated per day. No single facility may impregnate fertilizer with this product for more than 30 days per calendar year.

The commercial facility impregnating the dry bulk fertilizer must inform, in writing, the user (applicant) of the dry bulk fertilizer that:

- Applicator must wear long-sleeved shirt, long pants, shoes, and socks
- The restricted entry interval is 12 hours.

All individual state regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the Cadence* Lite Atz or Cadence* Lite Atz plus atrazine.

When applying Cadence* Lite Atz alone or in tank mixes with dry bulk fertilizers, follow all directions for use and precautions on the respective tank mix product labels regarding rates, soil texture, application methods and rotational restrictions. Use a minimum of 200 pounds dry fertilizer per acre.

Table 5: Approved Dry Fertilizer Ingredients for Use with Cadence* Lite Atz.

<table>
<thead>
<tr>
<th>Fertilizer</th>
<th>N</th>
<th>P</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Phosphate-Sulfate</td>
<td>16</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>Ammonium Sulfate</td>
<td>21</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Diammonium Phosphate</td>
<td>18</td>
<td>46</td>
<td>0</td>
</tr>
<tr>
<td>Monammonium Phospate</td>
<td>11</td>
<td>56</td>
<td>0</td>
</tr>
<tr>
<td>Potassium Haloide</td>
<td>9</td>
<td>0</td>
<td>60</td>
</tr>
<tr>
<td>Potassium Sulfate</td>
<td>0</td>
<td>0</td>
<td>52</td>
</tr>
<tr>
<td>Urea</td>
<td>45</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

† Some ureas may be phytotoxic when high rates are applied to corn. Use only urea.

Urea | 45 | 0 | 0

When determining the amount of Cadence* Lite Atz needed for other fertilizer rates, use the following formula:

\[
\text{Quarts of Cadence* Lite Atz per Ton of Fertilizer to Deliver:} = \frac{\text{Quarts of Cadence* Lite Atz per ton of fertilizer}}{\text{Fertilizer Rate (lbs per acre)}}
\]

**Table 5: Approved Dry Fertilizer Ingredients for Use with Cadence* Lite Atz.**

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