A preemergence herbicide for control of annual grasses and broadleaf weeds in field corn, production seed corn, silage corn, sweet corn, popcorn, Miscanthus and other non-food perennial bioenergy crops.

ACTIVE INGREDIENTS:
acetochlor: 2-chloro- N-ethoxymethyl-N- (2-ethyl-6-methylphenyl)acetamide . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 33.4%

atrazine: [2-chloro-4-(ethylamino)-6-(isopropylamino)-s-triazine] and related triazines . . . . . . . . . . . . . . . . . . . . . . . . . . . 26.9%

OTHER INGREDIENTS: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 39.7%

TOTAL 100.0%

Contains 372 grams per liter or 3.1 pounds per gallon acetochlor and 300 grams per liter or 2.5 pounds per gallon atrazine and related compounds per gallon.

Not for Sale, Sale Into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.

KEEP OUT OF REACH OF CHILDREN
CAUTION

EPA REG. NO. 34704-1081
EPA EST. NO. 34704-MT-001
NET CONTENTS 30.0 GAL (113 L)

FORMULATED FOR
LOVELAND PRODUCTS, INC®, P.O. BOX 1286, GREELEY, COLORADO 80632-1286
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear long sleeved shirt and long pants, socks and shoes.

Personal Protective Equipment (PPE)

Some materials that are chemical resistant to this product are listed below. 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:
• Long-sleeved shirt and long pants;
• Chemical-resistant gloves such as polyethylene or polyvinylchloride;
• Shoes plus socks; and
• Chemical-resistant apron when mixing/loading, cleaning up spills or cleaning equipment, or otherwise exposed to the concentrate.

See Engineering Controls for additional requirements.

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 the poison control center or doctor.
• Do not give anything by mouth to an unconscious person.

If inhaled:
• Move person to fresh air.
• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
• Call a poison control center or doctor for further treatment advice.

If in eyes:
• Hold eye open and rinse slowly and gently with water for 15 to 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 to 20 minutes.
• Call a poison control center or doctor for treatment advice.
• Sensitized persons should avoid further contact and reuse of contaminated clothing.

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: 1-800-944-8565.

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 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 demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the groundwater is shallow, may result in groundwater contamination.

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.

Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

Refer to Use Restrictions and Tile-Outfitted Terraced Fields sections for additional specific information.

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.

USER SAFETY RECOMMENDATIONS

Users should:
• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
• 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.
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 assessed through [www.atrazine-watershed.info] or [1-866-365-3014]. 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 through 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.

PRODUCT INFORMATION

For use only on field corn, production seed corn, silage corn, sweet corn, popcorn, Miscanthus and other non-food perennial bioenergy crops. Corn in this label refers to: field corn, production seed corn, silage corn, sweet corn and popcorn.

Cadence® ATZ NXT herbicide may be applied to the surface or incorporated into the top 1- to 2-inch layer of soil. It may be used for control alone, or in tank mix combinations, for the weeds listed in the “Target Weeds” section of these use directions. Cadence ATZ NXT Herbicide controls weeds by interfering with normal germination and seedling development. Cadence ATZ NXT Herbicide does not control established or emerged weeds present at application.

USE RESTRICTIONS

- Not for Sale, Sale Into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.
- This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the ground water is shallow, may result in ground water contamination.
- Do not apply Cadence ATZ NXT Herbicide before pre-irrigation in irrigated areas.
- Do not allow Cadence ATZ NXT Herbicide to contaminate feed or food.
- Do not contaminate irrigation water used for crops other than corn or water used for domestic purposes.
- Do not use Cadence ATZ NXT Herbicide on any crop other than field corn, production seed corn, silage corn, sweet corn, popcorn, and Miscanthus or other non-food perennial bioenergy crops.
- On the following soil types, do not apply this product within 50 feet of any well where the depth to groundwater is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter. See the figure for additional clarification.

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 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 (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; and
- Shoes plus socks.
• Do not apply under conditions that favor runoff or wind erosion of soil. Do not use flood irrigation to apply or incorporate this product.

Tile-Outletted Fields Containing Standpipes

• Do not use this product within 50 feet of intermittent tile-outlets in 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 fields.
  2. Apply this product to the entire tile-outletted field and immediately flush sprayer with clean water after use.
  3. Apply this product to the entire tile-outletted field under a no-till practice unless otherwise directed by approved supplemental labeling in possession of the user at the time of application.

Maximum Atrazine Application Rates Per Calendar Year:

- Apply a maximum of 2.0 pounds active ingredient (3.2 quarts Cadence ATZ NXT Herbicide) per acre. 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. Note: 1.0 quart per acre Cadence ATZ NXT Herbicide delivers 0.625 pound active ingredient atrazine per acre.
- Apply a maximum of 2.0 pounds active ingredient (3.2 quarts Cadence ATZ NXT Herbicide) per acre as a single preemergence application on highly erodible soils if less than 30% of the soil is covered with plant residues; or 2.0 pounds active ingredient (3.2 quarts Cadence ATZ NXT Herbicide) per acre if a single preemergence 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.
- Apply a maximum of 1.6 pounds active ingredient (2.5 quarts Cadence ATZ NXT Herbicide) per acre as a single preemergence application on highly erodible soils if less than 30% of the soil is covered with plant residues; or 2.0 pounds active ingredient (3.2 quarts Cadence ATZ NXT Herbicide) per acre if only applied postemergence.

Maximum Acetochlor Application Rates Per Calendar Year:

Maximum annual acetochlor broadcast application rates for corn must be as follows:

- Apply a maximum of 0.77 pound active ingredient acetochlor per acre. Note: 1.0 quart per acre Cadence ATZ NXT Herbicide delivers 0.625 pound active ingredient acetochlor per acre.

Aerial Application:

- Do not apply this product using aerial application equipment unless otherwise directed by approved supplemental labeling in possession of the user at the time of application.
- 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.
  • Flush sprayer with clean water after use.
• Preharvest Interval: Do not apply Cadence ATZ NXT Herbicide within 60 days of harvest of field corn for field corn forage uses or 45 days for sweet corn forage uses.

• Postemergence applications of Cadence ATZ NXT Herbicide to corn must be made before the crop reaches 11 inches in height.

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.

• Cadence ATZ NXT Herbicide should not be used on corn seed stock such as Breeders, Foundation, or Increase.

• Cadence ATZ NXT Herbicide should not be stored near seeds, fertilizers, or foodstuffs.

• All containers of Cadence ATZ NXT Herbicide should be kept tightly closed when not in use.

• Applied according to directions and under normal growing conditions, Cadence ATZ NXT Herbicide 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 ATZ NXT Herbicide used under these abnormal conditions could result in crop injury.

Rotational Crop Restrictions:

When tank mixing Cadence ATZ NXT Herbicide with other herbicides, follow the most restrictive crop rotation guidelines on the label of each product used. The following rotational crops may be planted following application of Cadence ATZ NXT Herbicide as indicated:

<table>
<thead>
<tr>
<th>Rotational Crop</th>
<th>Timing or Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>corn (2)</td>
<td>Immediately – 6 months after application</td>
</tr>
<tr>
<td>corn, cotton, sorghum, soybeans (3) (4)</td>
<td>Spring/next season following application</td>
</tr>
<tr>
<td>alfalfa, barley, dry beans (adzuki, kidney, lima, navy, or pinto), lupin (grain, white, or white sweet), millet (pearl or proso), oats, pass (blackeyed, chick, cow, crowder, field, pigeon, or Southern), potatoes, rye, sugar beets, sunflower, tobacco, triticale, wheat, wild rice</td>
<td>15 months after application (5)</td>
</tr>
</tbody>
</table>

Numbers within parentheses (-) in the table refer to specific rotational crop requirements below.

(1) Do not plant dry beans or peas, potatoes, small grains or small-seeded legumes, sugar beets, sunflower, or tobacco during the 15 months following application, or injury from atrazine may occur.

(2) If crop treated with Cadence ATZ NXT Herbicide is lost, field corn, seed corn, silage corn, popcorn, or sweet corn may be replanted immediately. Do not exceed a total of 3.0 pounds per acre of acetochlor (3.8 quarts Cadence ATZ NXT Herbicide) if additional product is applied. If applied after June 10, do not rotate to crops other than corn or sorghum the next year or crop injury from atrazine may occur.

(3) Injury may occur to soybeans planted the year following application on soils having a calcareous subsurface layer and relatively high pH. In eastern parts of the Dakotas, Kansas, western Minnesota and Nebraska, do not rotate to soybeans if the rate applied was more than 2.0 pounds active ingredient equivalent of atrazine or soybean injury may occur.

(4) In the High Plains and Intermountain regions of the West where rainfall is sparse and erratic or irrigation is required, use only where corn or sorghum is to follow corn.

(5) Approved rotation crops list does not include any species of succulent beans or peas.

Rotation to Non-food Winter Cover Crops

Following harvest of food crops treated with Cadence ATZ NXT Herbicide, only non-food or non-feed winter cover crops (with the exception of wheat) may be planted. Do not graze or harvest rotational cover crops for food or animal feed for 15 months following the last application of Cadence ATZ NXT Herbicide. This prohibition does not apply to wheat, which may be planted 4 months following the last application of Cadence ATZ NXT Herbicide, or to nongrass animal feeds, which may be planted 3 months after the last application of Cadence ATZ NXT Herbicide.

Weed Resistance Management Guidelines

Atrazine and acetochlor, the active ingredients in this product, are Group 15 and Group 5 herbicides, respectively, based on the mode of action classification system of the Weed Science Society of America. Any weed population may contain plants naturally resistant to Group 15 or Group 5 herbicides. Such resistant weed plants may not be effectively managed using Group 15 or Group 5 herbicides but may be effectively managed utilizing another herbicide alone or in mixtures from a different Group and/or by using cultural or mechanical practices. However, any herbicide mode of action classification by itself may not adequately address specific weeds that are resistant to specific herbicides. Consult your Loveland Products, Inc. representative, state cooperative extension service, professional consultants, or other qualified authorities to determine appropriate actions for treating specific resistant weeds.

Best Management Practices

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is recommended. A diversified weed management program may include the use of multiple herbicides with different modes of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using full labeled rates and following directions for use is important to delay the selection for resistance. Scouting after a herbicide application is important because it can facilitate the early identification of weed shifts and/or weed resistance and thus provide direction on future weed management practices. One of the best ways to contain resistant populations is to implement measures to avoid
allowing weeds to reproduce by seed or to proliferate vegetatively. Cleaning equipment between sites and avoiding movement of plant material between sites will greatly aid in retarding the spread of resistant weed seed.

General principles of herbicide resistance management:
1. Apply integrated weed management practices. Use multiple herbicide modes of action with overlapping weed spectrums in rotation, sequences, or mixtures.
2. Use the full specified herbicide rate and proper application timing for the hardest to control weed species present in the field.
3. Scout fields after herbicide application to ensure control has been achieved.
4. Monitor site and clean equipment between sites.

For annual cropping situations also consider the following:
1. Batches should be mixed and applied the same day.
2. Use new commercial seed that is as free of weed seed as possible.
3. Use good agronomic principles that enhance crop competitiveness.
4. Use cultural practices such as cultivation and crop rotation, where appropriate.
5. Avoid allowing weeds to reproduce by seed or to proliferate vegetatively.
6. Start with a clean field and control weeds early by using a burndown herbicide treatment or tillage in combination with a soil-applied residual herbicide as appropriate.

Carriers
Liquids: 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 ATZ NXT Herbicide is physically compatible with a fluid fertilizer, constant agitation is necessary to maintain a uniform mixture during application.

Dry Bulk Fertilizer: Cadence ATZ NXT Herbicide may be impregnated on dry bulk fertilizer and applied as the fertilizer is spread. See Appendix II for directions and restrictions including which fertilizers are compatible.

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

Used Alone: When Cadence ATZ NXT Herbicide 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:
1. 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.
2. 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.
3. Add Cadence ATZ NXT Herbicide next.
4. Add ammonium sulfate then Makaze® herbicide, Salvo® herbicide (not for use on production seed corn or silage corn), and a nonionic surfactant last, if needed.
5. Complete filling the sprayer tank and continue agitation.

Report any incidence of repeated non-performance of this product on a particular weed to your Loveland Products, Inc. representative, local retailer, or county extension agent.

APPLICATION DIRECTIONS – CORN

Carriers
Liquids: 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 ATZ NXT Herbicide is physically compatible with a fluid fertilizer, constant agitation is necessary to maintain a uniform mixture during application.

Dry Bulk Fertilizer: Cadence ATZ NXT Herbicide may be applied up to 45 days prior to planting field corn or silage corn. Split applications can be made either as a split or as a single application. If weeds are present at the time of application, apply this product in a tank mixture with an appropriate contact herbicide. Observe directions for use, precautions, and restrictions on the label of the contact herbicide. During the planting operation, be careful not to move untreated soil to the surface or move treated soil out of the row; as weed control may be reduced.

Volume
Liquid: Use a minimum of 10.0 gallons per acre in broadcast boom equipment for ground applications.

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

Pressure
If liquid carriers are used, the pressure at the nozzle should be 15 to 45 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.

Application Timing and Methods
For the optimum period of effective weed control during the time most critical to corn production, preplant applications of Cadence ATZ NXT Herbicide should occur as close as possible to planting. Preemergence applications should occur as close as possible to planting, but prior to weed emergence; this product will not control emerged weeds present at application.

Early Preplant Surface: On medium and fine textured soils (see Table 1), Cadence ATZ NXT Herbicide may be applied up to 45 days prior to planting field corn or silage corn. Split applications can be made 30 to 45 days prior to planting with 60 percent of the specified broadcast rate applied initially and the remaining 40 percent applied at planting. Applications made less than 30 days prior to planting can be made either as a split or as a single application. If weeds are present at the time of application, apply this product in a tank mixture with an appropriate contact herbicide. Observe directions for use, precautions, and restrictions on the label of the contact herbicide. During the planting operation, be careful not to move untreated soil to the surface or move treated soil out of the row; as weed control may be reduced.
Preplant Incorporation: Cadence ATZ NXT Herbicide and certain tank mixes may be mechanically incorporated in the top 2 inches of the soil with field cultivators, discs, or spring tooth harrows at any time within 14 days prior to planting. Improper incorporation, excessive crop residues, or poor soil tilth may result in erratic, streaked or otherwise unsatisfactory weed control. Do not mix Cadence ATZ NXT Herbicide deeper than 2 inches into the soil and avoid moving or shaping soil after incorporation, as weed control may be reduced.

Preemergence Surface: Cadence ATZ NXT Herbicide and certain tank mixes may be applied to the soil surface as a broadcast or banded application. Precipitation or sprinkler irrigation of at least 0.25 inch is required to bring Cadence ATZ NXT Herbicide into contact with germinating seeds. If rain or sprinkler irrigation does not occur within 7 days after application, weed control may be improved by using a rotary hoe, or similar device, to incorporate the herbicide. The device used should be run at a shallow depth to prevent disturbing the corn seed. Do not remove Cadence ATZ NXT Herbicide from the weed control zone or dilute it with untreated soil. Erratic weed control resulting from exposure of untreated soil may occur if surface soil is moved or reshaped during incorporation.

Postplant-Preemergence: Cadence ATZ NXT Herbicide may be applied immediately after planting but prior to corn emergence. If rain or sprinkler irrigation does not occur within 7 days after application, weed control may be improved by using a rotary hoe, or similar device, to shallowly incorporate the herbicide. The device used should be run at a shallow depth to prevent disturbing the corn seed. Do not remove Cadence ATZ NXT Herbicide from the weed control zone or dilute it with untreated soil. Erratic weed control resulting from exposure of untreated soil may occur if surface soil is moved or reshaped during incorporation.

Bandinc-Preemergence: Cadence ATZ NXT Herbicide may be applied in a 10- to 14-inch band after corn planting but prior to corn emergence. If rain or sprinkler irrigation does not occur within 7 days after application, weed control may be improved by using a rotary hoe, or similar device, to shallowly incorporate the herbicide. The device used should be run at a shallow depth to prevent disturbing the corn seed. Do not remove Cadence ATZ NXT Herbicide from the weed control zone or dilute it with untreated soil. Erratic weed control resulting from exposure of untreated soil may occur if surface soil is moved or reshaped during incorporation.

Early Postemergence: Cadence ATZ NXT Herbicide may be applied early postemergence to corn up to 11 inches tall. Applications must be made prior to weed seedling emergence or in a tank mixture with a herbicide that controls the emerged weeds. Read and follow restrictions and directions on tank mix product labels.

Note: Do not make postemergence applications using sprayable liquid fertilizer as the carrier because severe crop injury may occur.

Sprinkler Irrigation: Do not apply Cadence ATZ NXT Herbicide postemergence to sweet corn.

Soil Texture and Organic Matter

The specified use rate of Cadence ATZ NXT Herbicide is determined by a combination of two factors, soil texture and organic matter, which must be determined prior to application. Soils are grouped into three textural classes (coarse, medium and fine), as outlined in Table 1.

Table 1: Soil Texture Groupings for Cadence ATZ NXT Herbicide Use Rate Selection.

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Coarse</th>
<th>Medium</th>
<th>Fine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandy</td>
<td>Loam</td>
<td>Sandy clay loam</td>
<td>Clay loam</td>
</tr>
<tr>
<td>Sand</td>
<td>Loam</td>
<td>Sandy clay</td>
<td>Clay</td>
</tr>
<tr>
<td>Loamy sand</td>
<td>Silt loam</td>
<td>Sandy clay</td>
<td>Clay</td>
</tr>
<tr>
<td>Sandy loam</td>
<td>Silt</td>
<td>Sandy clay loam</td>
<td>Clay</td>
</tr>
<tr>
<td>Clay loam</td>
<td>Silt</td>
<td>Silty clay</td>
<td>Clay</td>
</tr>
</tbody>
</table>

Note: *Use the higher rate in the rate range in areas of heavy weed infestation.

Use Rates for Conventional Tillage Systems

Table 2: Cadence ATZ NXT Herbicide Use Rates by Soil Texture and Organic Matter Content in Conventional Tillage Systems.

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Soil Organic Matter Content</th>
<th>Broadcast Rate/Acre (Qt)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse</td>
<td>Less than 3%</td>
<td>1.4 to 2.4</td>
</tr>
<tr>
<td>Medium</td>
<td>3% or Greater</td>
<td>2.5 to 2.6</td>
</tr>
<tr>
<td>Fine</td>
<td></td>
<td>2.3 to 3.0</td>
</tr>
</tbody>
</table>

*Use the higher rate in the rate range in areas of heavy weed infestation.

Note: In areas of heavy weed infestations, use up to 2.3 quarts per acre on coarse-textured soils and 2.3 to 3.0 quarts per acre on medium- and fine-textured soils.
On highly erodible soils with less than 30% plant residue, do not apply more than 2.5 quarts of Cadence ATZ NXT Herbicide per acre in a single preemergence application.

**Use Rates for Reduced Tillage Systems or Early Preplant Applications in Conventional Tillage Systems**

Cadence ATZ NXT Herbicide may be used in reduced- and no-till systems and in early preplant applications in conventional tillage systems. Single applications may be made up to 30 days prior to planting or after planting but before crop emergence. Optimal weed control will be obtained when applications are made as close to planting as possible but before crop emergence. If weeds are emerged at time of application, apply a labeled burndown herbicide such as Makaze, Gramoxone®, or Salvo (not for use on production seed corn, or silage corn) with Cadence ATZ NXT Herbicide.

**Table 3: Cadence ATZ NXT Herbicide Use Rates by Soil Texture in Reduced and No-till Systems or Conventional Tillage Systems when Applications are made more than 14 days Prior to Planting**

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>Broadcast Rate/Acre (Qt)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse**</td>
<td>1.7 to 2.3</td>
</tr>
<tr>
<td>Medium</td>
<td>2.3 to 3.0</td>
</tr>
<tr>
<td>Fine</td>
<td>2.3 to 3.0</td>
</tr>
</tbody>
</table>

* Use the higher rate in the rate range in areas of heavy weed infestation. Rates are for single applications. Split applications may be used; apply 60% of the specified rate up to 45 days before planting and the remaining 40% at or immediately following planting but before crop emergence. ** Do not apply more than 14 days prior to planting on coarse textured soils.

**Table 4: Weeds Controlled or Partially Controlled by Cadence ATZ NXT Herbicide at Specified Use Rates**

<table>
<thead>
<tr>
<th>Grasses and Sedges</th>
<th>C = Control</th>
<th>PC = Partial Control</th>
<th>Broadleaves</th>
<th>C = Control</th>
<th>PC = Partial Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barnyardgrass</td>
<td>C</td>
<td></td>
<td>Beggartwist, Florida</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Crabgrass spp.</td>
<td>C</td>
<td></td>
<td>Carpetweed</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Dandelion</td>
<td>C</td>
<td></td>
<td>Cocklebur (2)</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Coppergrass, southwestern</td>
<td>C</td>
<td></td>
<td>Celosia</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Coppergrass, woolly</td>
<td>PC</td>
<td></td>
<td>Groundcherry, annual</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Foxtail, giant</td>
<td>C</td>
<td></td>
<td>Groundcherry, cutleaf</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Foxtail, green</td>
<td>C</td>
<td></td>
<td>Henbit</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Foxtail, robust (purple, white)</td>
<td>C</td>
<td></td>
<td>Jimsonweed</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Foxtail, yellow</td>
<td>C</td>
<td></td>
<td>Kochia</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Goosegrass</td>
<td>C</td>
<td></td>
<td>Lambquarters, common</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Johnsongrass, seedling</td>
<td>PC</td>
<td></td>
<td>Morningglory, spp. (2)</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Millet, fiant</td>
<td>C</td>
<td></td>
<td>Mustard spp.</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Millet, wild proso</td>
<td>PC</td>
<td></td>
<td>Nightshade, black</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Nutseed, yellow (1,2)</td>
<td>C</td>
<td></td>
<td>Nightshade, hairy</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Oat, wild</td>
<td>C</td>
<td></td>
<td>Pigweed, spp.</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Panicum, bryantop</td>
<td>C</td>
<td></td>
<td>Purslane, common</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Panicum, fall</td>
<td>C</td>
<td></td>
<td>Purslane, Florida</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Panicum, Texas (3)</td>
<td>PC</td>
<td></td>
<td>Ragweed, common</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Rice, red</td>
<td>C</td>
<td></td>
<td>Ragweed, grass</td>
<td>PS</td>
<td></td>
</tr>
<tr>
<td>Sandbur, field</td>
<td>PC</td>
<td></td>
<td>Sicklepod</td>
<td>PS</td>
<td></td>
</tr>
<tr>
<td>Shallerette</td>
<td>PC</td>
<td></td>
<td>Sida, prickly</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Signalgrass, broadleaf (2)</td>
<td>R</td>
<td></td>
<td>Smartweed, spp.</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>
Tank mixes applied preplant or preemergence to the crop. Fertilizers (28%, 30% or 32% UAN) or ammonium sulfate (AMS) may be used with tank mixes and approved for agricultural crop use. Adjuvants and/or low rate liquid fertilizers as the carrier when Cadence ATZ NXT Herbicide tank mixes applied postemergence to corn as severe injury may result. The addition of liquid fertilizers used as adjuvants with Cadence ATZ NXT Herbicide 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 ATZ NXT Herbicide unless otherwise specified in the tank mix product label.

Cadence ATZ NXT Herbicide may be tank-mixed with Aim® EC, atrazine, Balance® Pro, Balance Flexx, Callisto®, Callisto Xtra, Distinct®, Hornet® WDG, Linex® 4L, Lorox® DF, Makaze, Marnasil®, Princep, Python® WDG, Resource®, Rilex®, Salvo (not for use on production seed corn, or slilage corn) or Strath® for preemergence use in corn. Ensure that specific product being used in the tank mixture is registered for preemergence application to corn. Read and follow label directions of all products in the tank mixture; the most restrictive label directions apply.

When tank mixing Cadence ATZ NXT Herbicide 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.

<table>
<thead>
<tr>
<th>Grasses and Sedges</th>
<th>C = Control</th>
<th>C = Partial Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sprangletop, red</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Wheat, volunteer</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Witchgrass</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Waterhemp, tall</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Sunflower, common</td>
<td>PC</td>
<td></td>
</tr>
</tbody>
</table>

(1) Preplant incorporate for improved control.
(2) Use the higher rate in the specified application rate range. Control of these weeds can be erratic, especially under dry conditions. Additional atrazine and/or sequential herbicide applications may be needed for complete control.
(3) Best control is achieved when Cadence ATZ NXT Herbicide 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 application may be needed.

### CADENCE ATZ NXT HERBICIDE TANK MIX COMBINATIONS

When tank mixing or sequentially applying atrazine or simazine or products containing either active ingredient to corn, the total pounds of simazine and/or atrazine applied (pound active ingredient per acre) must not exceed 2.5 pounds of active ingredient per year.

For all applications, do not exceed the maximum rate of acetochlor as specified in the Maximum Acetochlor Application Rates per Calendar Year section of this label.

Use of Spray Adjuvants
Cadence ATZ NXT Herbicide is a preemergence herbicide for which spray adjuvants have little or no effect on performance. However, several herbicides used in tank mixtures with Cadence ATZ NXT Herbicide require use of adjuvants to aid in the breakdown of emerged weeds. Use only those adjuvants specified 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 ATZ NXT Herbicide is applied postemergence to corn as severe injury may result. The addition of liquid fertilizers used as adjuvants with Cadence ATZ NXT Herbicide 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.

Conventional Tillage Corn (Cadence ATZ NXT Herbicide 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” 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; refer to the Balance Pro label for precautionary statements, use directions, and geographic and other restrictions. For use in field corn only. Refer to the use rates section of the Cadence ATZ NXT Herbicide label for minimum use rates.</td>
</tr>
<tr>
<td>Cadence NXT Herbicide</td>
<td>Tank mix 1.0 pt/acre for enhanced grass and nutsedge control.</td>
</tr>
<tr>
<td>Hornet WDGs</td>
<td>Tank mixing 2.0 to 4.0 oz/A Hornet WDGs herbicide 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>Provides improved crabgrass or tall fescue control.</td>
</tr>
<tr>
<td>Python WDGs</td>
<td>Tank mixing 0.8 to 1.0 oz/A Python WDGs herbicide provides consistent control of velvetleaf, lambsquarters, pigweed species, waterhemp and triazine resistant varieties of these species.</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 ATZ NXT Herbicide Plus):

**Tank Mix Herbicide** | **Comments**
--- | ---
Atrazine 4L | Longer growing season areas. High rainfall areas. Heavy broadleaf weed pressure. If emerged weeds are greater than 1.5" tall at the time of application, add an appropriate postemergence herbicide.
Cadence NXT Herbicide | Enhanced grass and nutsedge control.
Gramoxone Inteon® | Control annuals, suppress perennials.
Makaze | Burndown existing weeds.
Roundup WeatherMax® | Burndown existing weeds.
Buctril/atrazine, Callisto, Calisto Xtra, Capreno®, Distinct, Hornet WDG, Impact®, Laudur®, Liberty®, Lightning®, Linex 4L, Lorox DF, Marksman, Peak®, Premet®, Pendimax, Pursuit®, Resource, Rifle, Salvo (not for use on production seed corn, or silage corn), Shotgun®, Spirit®, Status®, Steadfast®, Stealth (not for use on silage corn) or Strut. Refer to the tank mix product label(s) regarding use directions, precautions and restrictions, and the list of weeds controlled.
Salvo | Burndown existing weeds.

† Formulations that are not listed may be used: Perform a compatibility test and check the product label for application rates, applicable use directions, precautions and limitations.

Postemergence Tank Mix Combinations

Cadence ATZ NXT Herbicide may be tank mixed with any product approved for use on corn unless it is prohibited on the tank mix product label. Ensure that specific product being used in the tank mixture is registered for postemergence application to corn. Read and follow label directions of all products in the tank mixture; the most restrictive label directions apply.

Postemergence Tank Mixes (Cadence ATZ NXT Herbicide):

<table>
<thead>
<tr>
<th>Tank Mix Herbicide</th>
<th>Rate</th>
<th>Comments</th>
</tr>
</thead>
</table>
| Atrazine | 0.5 to 2.0 lb AI/A | Preplant surface, preplant incorporated, preemergence or early postemergence (up to 8" tall corn). If emerged weeds are greater than 1.5" tall at the time of application, add an appropriate postemergence herbicide. **Note:** The maximum atrazine application rate for corn is 2.5 lb atrazine AI/A calendar yr.
| Buctril | 2.0 to 3.0 pt/A | Refer to product label for use directions.
| Buctril/atrazine | 2.0 to 3.0 pt/A | Refer to label for Shotgun herbicide for timing and use directions.
| Shotgun herbicide | 4.0 to 6.0 oz/A | Always add a NIS at 0.25% v/v and 1.25% UAN. Can be applied up to 10" corn.
| District | 4.0 to 10.0 oz/A | Postemergence application rate for corn is 2.5 lb atrazine AI/A calendar yr or 2.0 lb atrazine AI for postemergence application if no atrazine was applied preemergence.
| Hornet WDG | 2.0 to 5.0 oz/A | Always add NIS at 0.25% v/v or COG at 1% v/v.
| Liberty | 16.0 to 25.0 oz/A | Early postemergence up to 8" tall corn on all soils. If grasses are more than 2-leaf stage, combine with another herbicide to control these weeds.
| Lightning | 1.28 oz/A | For use on Clearfield® corn only. Use a NIS at 25% v/v and a liquid nitrogen fertilizer at 1.0 to 2.0 qt/A or ammonium sulfate at 2.5 lb/A.
| Marksman | 2.0 to 3.5 pt/A | Early postemergence up to 8" tall corn on all soils. If grasses are more than 2-leaf stage, combine with another herbicide to control these weeds.
| Rifle | 0.5 to 1.0 pt/A | The maximum atrazine application rate for corn is 2.5 lb AI/A calendar yr or 2.0 lb atrazine AI for postemergence application if no atrazine was applied preemergence.
| Strut | 0.5 to 1.0 pt/A | Preemergence to early postemergence (up to 3" tall corn) but before weeds are more than 1" tall.

Burndown herbicides should be applied to emerged weeds when they are small; weeds less than 6 inches in height are easiest to control. Consult the burndown product labels for further information on weeds controlled.
Postemergence Tank Mixes (Cadence ATZ NXT Herbicide):

<table>
<thead>
<tr>
<th>Tank Mix Herbicide</th>
<th>Rate</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pursuit 2.5L</td>
<td>4.0 fl oz/A</td>
<td>Use only on Clearfield varieties.</td>
</tr>
<tr>
<td>Pursuit 70DG</td>
<td>1.4 fl oz/A</td>
<td>Apply preplant surface, preplant incorporated, preemergence or early postemergence (up to 3&quot; tall weeds).</td>
</tr>
<tr>
<td>Resource</td>
<td>4.0 to 6.0 oz/A</td>
<td>Apply to weeds less than 3&quot; tall. Add a crop oil concentrate at 1.0 to 2.0 pt/A and either 28% nitrogen at 2% v/v or ammonium sulfate at 2.5 lb/A. May cause some burn or spotting to corn leaves.</td>
</tr>
<tr>
<td>Sulpco</td>
<td>See Label</td>
<td>Apply preplant surface or preemergence to control emerged broadleaf weeds in corn.</td>
</tr>
<tr>
<td>Spirit</td>
<td>1.5 oz/A</td>
<td>Always add crop oil concentrate at 1% v/v. See label for geographic restrictions.</td>
</tr>
<tr>
<td>Accent 75WDG</td>
<td>0.25 to 0.6 oz/A</td>
<td>Minimum Cadence ATZ NXT Herbicide use rates (qt/A):</td>
</tr>
<tr>
<td>Basis</td>
<td>0.25 to 0.6 oz/A</td>
<td>Soil &lt;3%OM 3% or more OM</td>
</tr>
<tr>
<td>Beacon 75WDG</td>
<td>0.76 oz/A</td>
<td>Coarse 1.7</td>
</tr>
<tr>
<td>Steadfast</td>
<td>0.75 oz/A</td>
<td>Medium 1.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fine 1.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.7 to 2.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Always add NIS at .25% (v/v); and in addition if applied in dry conditions, add 4% (v/v) clear liquid fertilizer.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Buctril, Buctril/ atrazine, Marksman, Rifle, Strut may be added to this mixture to provide burndown and residual control of broadleaf weeds.</td>
</tr>
<tr>
<td>Basis Gold</td>
<td>14.0 oz/A</td>
<td>Minimum Cadence ATZ NXT Herbicide use rates (qt/A):</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Soil &lt;3%OM 3% or more OM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coarse 1.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medium 1.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fine 1.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.7 to 2.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Always add crop oil concentrate at 1.0% v/v or under dry and conditions, 2.0% v/v and 28% liquid nitrogen at 2.0 qt/A or ammonium sulfate at 2.0 lb/A.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Buctril, Marksman, Rifle, Strut, or Tough® herbicide may be added to this mixture to provide burndown and residual control of broadleaf weeds.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The maximum atrazine application rate for corn is 2.5 lb AI/calendar yr or 2.0 lb atrazine AI for postemergence application if no atrazine was applied preemergence.</td>
</tr>
</tbody>
</table>

Miscanthus and Other Non-food Perennial Bioenergy Crops

For weed control in Miscanthus and other non-food perennial bioenergy crops, apply Cadence ATZ NXT Herbicide at 1.4 to 1.9 quarts per acre after the crop has been transplanted or after fully emerged to a height of at least 2 to 3 inches.

Up to 2 applications of Cadence ATZ NXT Herbicide herbicide may be made each year. The total amount of this product applied each year must not exceed 3.8 quarts per acre.

Restrictions:
- Do not allow the Miscanthus or other non-food perennial bioenergy crop treated with Cadence ATZ NXT Herbicide to be grazed or used as animal feed.

APPENDIX I

Procedure for Testing the Compatibility of Cadence ATZ NXT Herbicide and Tank Mixes with Fluid Fertilizers.

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

Materials Needed:
- Cadence ATZ NXT Herbicide and any tank mix products.
- Fluid fertilizer to be used.

Procedure:
1. Pour a pint (about 473 milliliters) of the fluid fertilizer into each of the quart jars.
2. Add Cadence ATZ NXT Herbicide and any tank mix combination to the jars.
3. The order of addition is wettable powders first with mixing, followed by flowables with mixing and the ECs last. The rate of wettable powders and dry flowables is 1.5 teaspoon per pound of product per acre to be applied. ECs should be added at the rate of 0.5 teaspoon for each pint per acre to be applied. Premixing the wettable powders in 1.0 ounce of water before adding to the pint of fluid fertilizer will improve the compatibility of the final mixture.
4. Add 0.5 teaspoon (0.2 milliliters) adjuvant to one of the jars, label it as “with” and mix. The rate of 0.5 teaspoon per pint is equal to 3.0 pints of adjuvant per 100 gallons of fluid fertilizer.
5. Close both jars with lids or stoppers and mix the contents by turning the jars upside down 10 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 after 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 3.0 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 (applicator) 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 ATZ NXT Herbicide.

Dry bulk fertilizers (Table 5) may be impregnated with this product or the tank mixtures of this product plus atrazine on corn. This product and these tank mixes must be applied with 200 to 450 pounds of dry bulk fertilizer per acre and fertilizer rates per acre.

Table 5: Approved Dry Fertilizer Ingredients for Use with Cadence ATZ NXT Herbicide.

<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>45</td>
<td>0</td>
</tr>
<tr>
<td>Monoammonium Phosphate</td>
<td>11</td>
<td>56</td>
<td>0</td>
</tr>
<tr>
<td>Potassium Chloride</td>
<td>0</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 rates known to be safe for corn application.

For impregnating the pesticides on dry fertilizers, use an appropriate mixer equipped with suitable spraying equipment. The spray nozzles should be positioned inside the mixer to provide uniform spray coverage of the tumbling fertilizer. The Cadence ATZ NXT Herbicide should be sprayed uniformly onto the fertilizer using a fine spray pattern. Tank mix components may be applied as separate ingredients with powders and dry flowables added first or they may be mixed in a slurry in the proper ratio and added jointly. Cadence ATZ NXT Herbicide may also be impregnated on the go and applied with pneumatic applicators.

The following table provides a reference to determine the amount of Cadence ATZ NXT Herbicide to be mixed per ton of dry bulk fertilizer for a range of herbicide rates per acre. To determine the amount of Cadence ATZ NXT Herbicide needed for other fertilizer rates, use the following formula:

\[ \text{Quarts of Cadence ATZ NXT Herbicide} = \frac{x}{2000} \times \text{Pounds of fertilizer/acre} \]

If the herbicide/fertilizer mixture is too wet, use of a drying agent is required to provide a dry, free-flowing mixture. For mixtures to be used in spinning-disc applicators, Micro-Cel® E calcium silicate powder (Manville, Filtration and Minerals) is recommended for use as a drying agent. Mixtures to be used in pneumatic applicators should use Micro-Cel® E or AgriSite® 46-30 RNMS granular clay. The drying agents should be added separately and uniformly to the prepared pesticide/fertilizer mixture, in a quantity that is sufficient to provide a suitable mixture.
ATZ NXT Herbicide will not be absorbed. Super phosphate. Do not impregnate on agricultural limestone because Cadence fertilizer or fertilizer blends. Do not impregnate on single (0-20-0) or triple (0-46-0) super phosphate. Do not impregnate on agricultural limestone because Cadence ATZ NXT Herbicide will not be absorbed.

Precaution: To avoid potential for explosion, do not impregnate Cadence ATZ NXT Herbicide on ammonium sulfate nitrate, potassium nitrate, or sodium nitrate fertilizer or fertilizer blends. Do not impregnate on single (0-20-0) or triple (0-46-0) super phosphate. Do not impregnate on agricultural limestone because Cadence ATZ NXT Herbicide will not be absorbed.

STORAGE AND DISPOSAL
Do not contaminate water, food, or feed by storage or disposal. PESTICIDE STORAGE: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with vermiculite, earth, or synthetic absorbent.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org. If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

For packages up to 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 30 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For packages greater than 56 gallons: 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 or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

For refillable containers: Refill this container with this product 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 refilling 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 or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. For final disposal, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.

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