

SORGHUM (GRAIN) - MEDIUM OR FINE SOIL TEXTURE (LESS THAN 3% ORGANIC MATTER)

General Information

General Information

Commit ATZ Lite herbicide is a selective pre-emergence herbicide for controlling most annual grasses, many annual broadleaf weeds and sedges in field corn, popcorn, seed corn, sweet corn, and grain sorghum (refer to Table 1. Weeds Controlled).

Weeds Controlled

Some weed species have triazine-resistant biotypes that will not be controlled adequately by this product. If resistant biotypes are suspected, use an alternate program or use non-triazine products such as Clarity herbicide or Framework herbicide in combination with Commit ATZ Lite, or use Distinct herbicide or Status herbicide sequentially.

Mode of Action

Commit ATZ Lite contains two active ingredients:

dimethenamid-P, as an inhibitor of cell division, Group 15; and atrazine, an inhibitor of photosynthesis at photo system II Site A, Group 5. Commit ATZ Lite typically controls weeds before or soon after they emerge from the soil.

Herbicide Resistance

Naturally occurring biotypes of certain pests with resistance to the atrazine component in Commit ATZ Lite are known to exist. Selection of resistant biotypes, through repeated use of atrazine or related triazine herbicides (same mode of action), may result in reduced levels of control. If poor performance cannot be attributed to adverse weather conditions or improper application methods, a resistant biotype may be present. In such a case, additional treatments with this herbicide or related products are not recommended. Consult your local extension specialist or agricultural advisor for assistance in managing resistant weed biotypes.

Application Instructions

Apply Commit ATZ Lite preplant surface, preplant incorporated, preemergence, or early postemergence to corn or sorghum. Commit ATZ Lite will provide most effective weed control when applied (by ground or aerial equipment) and subsequently incorporated into soil by rainfall, sprinkler irrigation, or mechanical tillage prior to weed seedling emergence from soil. Apply Commit ATZ Lite with either water or fluid fertilizer as the spray carrier, or impregnated onto and applied with dry bulk fertilizer. Sprayable fluid fertilizer as a carrier is not recommended for use after crop emergence unless the typical fertilizer burn symptoms on the crop are acceptable. Refer to Additives section for more information.

Application Rate

Use rates for Commit ATZ Lite when used alone, in tank mix, or in sequential applications are given in Table 2 (refer to General Tank Mixing Information and Crop-specific Information sections for more details). Use rates of this product vary by soil texture and organic matter. Soil texture groupings used in the label are coarse (sand, loamy sand, sandy loam), medium (silt, silt loam, loam, sandy clay loam), and fine (sandy clay, silty clay, silty clay loam, clay loam, and clay).

When use rates are expressed in ranges, use the lower rates for more coarsely textured soils lower in organic matter; use the higher rates for more finely textured soils that are higher in organic matter. Reduced rates may be used where partial control or reduced length of soil residual control is required (refer to Table 2).

Application Timing

Preplant Surface Applications. For use in minimum tillage or no-tillage production

systems, apply Commit ATZ Lite alone or in tank mixes up to 45 days before planting. When making early preplant applications (15 to 45 days prior to planting), use 3.5 pints of Commit ATZ Lite on all soil types. Early preplant applications are not recommended for use on coarse-textured soils or in areas where average annual rainfall (or rainfall + irrigation) typically exceeds 40 inches. Early preplant applications may be applied as part of a split application program where the second application is made after planting (use 2/3 of Commit ATZ Lite rate early followed by 1/3 of rate after planting). Use a split application when the initial application is made more than 30 days prior to planting. Tank mixes with postemergence herbicides such as Clarity herbicide, glyphosate, Gramoxone Inteon herbicide, or Touchdown herbicide must be used when weeds are more than 1.5 inches tall at the time of application.

Preplant Incorporated Applications. Apply Commit ATZ Lite and incorporate into the upper (1 to 2 inches) soil surface up to 2 weeks before planting. Use a harrow, rolling cultivator, finishing disk, or other implement capable of giving uniform shallow incorporation. Avoid deeper incorporation or reduced weed control may result.

Preemergence Surface Applications. Broadcast treatment uniformly to the soil surface after planting and before crop emergence. Rainfall, sprinkler irrigation, or shallow mechanical incorporation after application is required to move this product into the upper soil surface where weed seeds germinate. If adequate rainfall or irrigation does not occur and weed seedling emergence begins, a shallow cultivation or rotary hoeing will improve performance.

Early Postemergence Applications. Apply Commit ATZ Lite early postemergence to corn or sorghum up to 12 inches tall. Apply Commit ATZ Lite before broadleaf weeds are greater than 1.5 inches tall and before grass weeds emerge. If grass and/or broadleaf weeds exceed those growth states, use Commit ATZ Lite in tank mix with products that control those emerged weeds.

Split Applications. Use Commit ATZ Lite in split application programs where applications are made as part of the methods described above. If applications are less than 2 weeks apart, the total Commit ATZ Lite rate used must not exceed the maximum rate given for each specific soil type. If applications are 2 weeks or more apart, a total Commit ATZ Lite use rate of up to 3.5 pints per acre per year may be used on any soil type.

Aerial Application Methods and Equipment

Water Volume. Use 2 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift.

Ground Application (Banding)

When applying Commit ATZ Lite herbicide by banding, determine the amount of herbicide and water volume needed using the formula in the label.

Ground Application Methods and Equipment (Broadcast)

Water Volume. Use 5 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Adequate spray volume must be used to provide accurate and uniform distribution of spray particles over the treated area and to avoid drift of spray particles to non-target areas.

Application Equipment. Use nozzle screens no finer than 50 mesh.

Ground Application (Dry Bulk Fertilizer)

Commit ATZ Lite may be impregnated or coated onto dry bulk granular fertilizer carriers for preplant surface, preplant incorporated, or preemergence applications. Impregnation of bulk fertilizer is restricted to commercial facilities. On-farm bulk fertilizer impregnation is prohibited. No more than 500 tons of dry 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:

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

Impregnation or coating may be conducted by either the in-plant bulk system or the on-board system. Commit ATZ Lite herbicide may also be applied in herbicide tank mixes where the tank mix companion product is also registered for these application systems. Individuals or agents selling Commit ATZ Lite in these application systems are responsible for following all state and local regulations regarding fertilizer and herbicide blending. The addition of a drying agent may be necessary if the fertilizer and herbicide blend is too wet for uniform application due to high humidity, high urea concentration, or low fertilizer use rate. Slowly add the drying agent to the blend until a flowable mixture is obtained. DO NOT use drying agents with onboard impregnation systems. Under some conditions, fertilizer impregnated with Commit ATZ Lite may clog air tubes or deflector plates on pneumatic application systems. Mineral oil may be added to Commit ATZ Lite before blending with fertilizer to reduce plugging. DO NOT use drying agents when mineral oil is used. To avoid separation of Commit ATZ Lite and mineral oil mixes in cold temperatures, either keep mixture heated or agitated prior to blending with fertilizer. Mineral oil may be used at in-plant blending stations or on-board injection systems.

Apply 200 to 750 pounds of fertilizer and herbicide blend per acre. Application must be made uniformly to the soil to prevent possible crop injury and offer satisfactory weed control. Impregnated fertilizer spread at half rate and overlapped to obtain a full rate will offer a more uniform distribution. For granular fertilizer application, to protect small birds and mammals, soil incorporation of the granules is required. A shallow (1 to 2 inches) incorporation is desirable for improved weed control. Deeper incorporation may result in unsatisfactory weed control.

Restrictions and Limitations

- Restricted Use Pesticide. This product is a restricted use herbicide due to groundwater and surface water concerns. Users must read and follow all precautionary statements and instructions for use to minimize potential for atrazine to reach groundwater and surface water.

- DO NOT apply through any type of irrigation system.
- DO NOT contaminate irrigation ditches or water used for domestic purposes.
- Maximum Seasonal Use Rate

DO NOT apply more than a total of 3.5 pints of Commit ATZ Lite per acre per season. Commit ATZ Lite contains 2.75 pounds of the active ingredient atrazine per gallon (0.34 pound ai per pint). When tank mixing or sequentially applying atrazine or products containing atrazine to corn or sorghum, the total pounds of atrazine applied (lbs ai/A) must not exceed the specific seasonal rate limits from preemergence, or postemergence, or preemergence + postemergence sequential applications, as follows:

Prior to crop emergence

DO NOT exceed 1.6 pounds of atrazine ai per acre on highly erodible soils (as defined by Natural Resource Conservation Service) with less than 30% plant residue cover. DO NOT exceed 2.0 pounds of atrazine ai per acre on other soils.

After crop emergence

DO NOT exceed 2.0 pounds of atrazine ai per acre on any soil.

Prior to and after crop emergence (sequential applications) or when tank mixing DO NOT exceed a total of 2.5 pounds of atrazine ai per acre on any soil per year.

The total pounds of atrazine applied from all sources must not exceed 2.5 pounds of active ingredient per acre per year.

- Preharvest Interval (PHI). Refer to Crop-specific Information for crop-specific preharvest intervals and feeding and grazing restrictions.
- Crop Rotation Restrictions

If the crop treated with Commit ATZ Lite is lost to adverse weather or for other reasons; the area treated may be replanted to corn and grain sorghum immediately. If the original Commit ATZ Lite treatment was broadcast, DO NOT make a second application of Commit ATZ Lite if the combined rate exceeds the maximum rate per season. If the original application was banded and the second

crop is planted in the row middles, a second band application may be applied.

Corn, cotton, peanuts, sorghum, or soybeans may be planted the year following treatment. Injury may occur to soybeans planted on soils having a calcareous surface layer.

DO NOT plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small seeded legumes and grasses the year following application, or injury may occur.

- Stress. DO NOT apply to crops under stress, such as stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures, because injury may result.

- Commit ATZ Lite herbicide is not for sale, distribution, or use in Nassau or Suffolk counties in New York state.

Limitations, Restrictions, and Exceptions

Sorghum (grain)

Apply Commit ATZ Lite preplant, preplant incorporated, preemergence, or early postemergence to grain sorghum up to 12 inches tall.

All Commit ATZ Lite applications must only be made to sorghum seed that has been properly treated by the seed company with an approved chloroacetamide herbicide safener or severe injury may occur.

For best performance, make preemergence surface applications within 5 days of the last preplant tillage.

Under high soil moisture or cool conditions, Commit ATZ Lite application may cause temporary stunting or leaf wrapping of sorghum. Sorghum will normally outgrow these symptoms in 10 to 14 days.

Crop-specific Restrictions and Limitations

- DO NOT use Commit ATZ Lite on sorghum planted in coarse-textured soil.
- Commit ATZ Lite is not registered for use on sweet or forage sorghum.
- Sorghum forage may be grazed or fed to livestock 60 days or more after

preemergence application of Commit ATZ Lite.

- Sorghum forage may be grazed or fed to livestock 45 days or more after postemergence application of Commit ATZ Lite.

- Grain and fodder may be harvested and fed 80 days or more after application of Commit ATZ Lite.

Application Rate:

NOTE: To assist in determining product use rates of Commit ATZ Lite when it is important to manage application rates of atrazine active ingredient (ai), refer to the following quick calculation guide:

- 2.0 pints of Commit ATZ Lite delivers 0.7 lb ai/A of atrazine

- 2.5 pints of Commit ATZ Lite delivers 0.85 lb ai/A of atrazine

- 3.0 pints of Commit ATZ Lite delivers 1.0 lb ai/A of atrazine

- 3.5 pints of Commit ATZ Lite delivers 1.2 lbs ai/A of atrazine

For all early preplant applications, use 3.5 pints of Commit ATZ Lite per acre.

Commit ATZ Lite is not recommended for use on soils with more than 20% organic matter.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Rates

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Restricted Entry Interval

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.

Soils

[Medium](#)

[Loam](#)

[Silt Loam](#)

[Silt](#)

[Fine](#)

[Silty Clay Loam](#)

[Sandy Clay Loam](#)

[Silty Clay](#)

[Sandy Clay](#)

[Clay Loam](#)

[Clay](#)

Timings

[Preemergence \(Crop\)](#)

[Preplant](#)

[Preplant Incorporated](#)

[Early postemergence \(crop\)](#)