

# U.S. ENVIRONMENTAL PROTECTION

**AGENCY** Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building

1200 Pennsylvania Ave., NW Washington, D.C. 20460

NOTICE OF PESTICIDE:

x Registration Reregistration (under FIFRA, as amended) EPA Reg. Number: 534-98

Date of Issuance:

7-14-08

Term of Issuance: conditional

Name of Pesticide Product: Ballistic Herbicide

Name and Address of Registrant (include ZIP Code):

Growmark, Inc.

1701 Towanda Avenue

Bloomington, IL 61701

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
  - 2. Throughout the label (for example page 15) replace "parallel plus" with "ballistic".

Signature of Approving Official:

Product Manager 25 Herbicide Branch

Registration Division (7505P)

EPA Form 8570-6

Submit one copy of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

# RESTRICTED USE PESTICIDE

(DUE TO GROUND AND SURFACE WATER CONCERNS)

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.

# **Ballistic**

# HERBICIDE

For Weed Control in Corn and Grain or Forage Sorghum

ACTIVE INGREDIENTS:	% BY WT.
Atrazine: 2-chloro-4-ethylamino-6-isopropylamino-s-triazine	
Atrazine related compounds:	
Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)N-(2_methoxy-1-methylethyl)acetamide	28.9%
INERT INGREDIENTS:	
	TAL 100.0%

Ballistic contains 2.8 lbs. atrazine active ingredient + related compounds per gallon and 2.7 lbs. metolachlor active ingredient per gallon.

# KEEP OUT OF REACH OF CHILDREN CAUTION

	FIRST AID
IF IN EYES:	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
IF ON SKIN OR CLOTHING:	<ul> <li>Take off contaminated clothing</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
IF SWALLOWED:	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow</li> <li>Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
IF INHALED:	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
Have the product co	ontainer or label with you when calling a poison control center or doctor or going for treatment.

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. Wear protective eyewear or clothing specified in the PPE section below.

NET CONTENTS: \_\_\_ GALLONS

ACCEPTED
with COMMENTS
Is EPA Letter Dated:

Under the Federal Insecticide, Fungicide, and Redenticide Act as amended, for the pesticide considered under EPA Res. No. Manufactured for: Growmark, Inc 1701 Towanda Avenue Bloomington, IL 61701

EPA Reg. No.534-xx

EPA Est No

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# PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category C on an EPA chemical-resistance category selection chart.

### Mixers, loaders, applicators, flaggers, and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate ≥ 14 mils, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride ≥14 mils, Viton ≥ 14 mils
- Shoes plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when mixing/loading, cleaning up spills, cleaning equipment, or otherwise exposed to the concentrate

See engineering controls for additional requirements.

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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**ENGINEERING CONTROLS:** Mixers and loaders supporting aerial applications at a rate greater than 3 lb. ai atrazine/A must use a closed system that meets the requirements for dermal protection listed in the Worker Protection Standard (WPS) for Agricultural Pesticides [40 CFR 170 240 (d)(4)] and must:

- -wear the personal protective equipment required for mixers and loaders,
- --wear protective eyewear if the system operates under pressure, and
- -be provided and have immediately available for use in an emergency, such as a spill or equipment breakdown: chemical resistant footwear.

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40 CFR 170.240 (d)(6)] Pilots must wear the PPE required on this labeling for applicators, however, they do not need to wear chemical-resistant gloves when using an enclosed cockpit

Flaggers supporting aerial applications must use an enclosed cab that meets the definition of the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240 (d)(5)] for dermal protection.

When applicators use 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 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.

#### ENVIRONMENTAL HAZARDS

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.

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

This product must not be mixed or loaded or used within 50 ft. 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 ft. 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

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leaks, container or equipment rinse or wash water, and rain water 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 unroofed 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 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 to the mixing/loading sites.

Additional state imposed requirements regarding well-head setbacks and operational area containment must be observed.

One of the following restrictions must be used in applying atrazine to tile-terraced fields containing standpipes:

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

Metolachlor is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

# Surface Water Advisory-Metolachlor

Metolachlor can contaminate surface water through ground spray drift. Under some conditions, metolachlor may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface water, frequently flooded areas, areas over-laying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface water with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

This pesticide is toxic to aquatic invertebrates Do not apply directly to water, 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 wash waters

#### **MIXING/LOADING INSTRUCTIONS**

Care must be taken when using this product to prevent back-siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates

Check-values or antisiphoning devices must be used on all mixing equipment.

This product must not be mixed/loaded or used within 50 ft. 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 ft. 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 wash-water, and rain-water 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 unroofed 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 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.

States may have in effect additional requirements regarding wellhead setbacks and operational area containment.

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

#### TILED-OUTLETTED TERRACED FIELDS CONTAINING STANDPIPES

One of the following restrictions must be used in applying this product to tile-terraced fields containing standpipes:

- 1. Do not apply this product within 66 ft. of standpipes in tile-outletted terraced fields.
- 2. Apply this product to the entire tile-outletted terraced 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 a high crop residue management practice is practiced. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

#### **DIRECTIONS FOR USE**

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the 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 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 24 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:

- Coveralis
- Chemical-resistant gloves such as barrier laminate ≥ 14 mils, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride ≥14 mils, Viton ≥ 14 mils
- Shoes plus socks

ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consuit the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be accessed through <a href="https://www.atrazine-watershed.info">www.atrazine-watershed.info</a> or 1-866-365-3014. If use of this product is prohibited in your watershed, you may return this product to your point of purchase or contact Growmark, Inc. for a refund.

Not for sale, use, or distribution in Nassau or Suffolk Counties, NY.

#### **CHEMIGATION PROHIBITION**

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

#### **GENERAL INFORMATION**

Ballistic is an herbicide recommended before planting, before or after emergence for control of most annual grasses and broadleaf weeds in corn. Ballistic can also be used before crop emergence for control of most annual grasses and broadleaf weeds in grain or forage sorghum provided the sorghum seed has been properly treated by the seed company with Concep® or Screen®. This product may be tank mixed with other herbicides for weed control in conventional tillage corn. This product may also be tank-mixed with other herbicides specified on this label for weed control in conventional, minimum till, and no-till corn, grain sorghum, or forage sorghum. Tank mixtures are permitted only in those states where the tank-mix partner is registered. Refer to and follow the label of each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

When tank mixing or sequentially applying atrazine or products containing atrazine to corn or sorghum do not exceed an application rate of 2 0 pounds active ingredient of atrazine per acre for any single application and the total pounds of atrazine applied (lb a i per acre) must not exceed 2 5 pounds active ingredient per acre per year

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Following many years of continuous use of atrazine (one of the active ingredients in this product), and products chemically related to atrazine, biotypes of some of the weeds listed on this label which are controlled by the atrazine component have been reported to develop resistance to this and chemically related herbicides. Where this is known or suspected, and weeds controlled by this product are expected to be present along with resistant biotypes, we recommend the use of Ballistic in combination or in sequence with registered herbicides, which do not contain triazines. Consult with your State Agricultural Extension Service for specific recommendations.

### Precautions to observe when using this product:

- If sorghum seed is not properly pretreated with Concep or Screen, Ballistic will severely injure the crop.
- Injury may occur to sorghum following the use of Ballistic under abnormally high soil moisture conditions during early development of the crop.

Ballistic alone or in tank mixture with Atrazine, Balance, Dual Magnum, Dual II Magnum, Cycle, Parallel, Princep may be applied early preplant, preplant surface, preplant incorporated, or preemergence on corn in water or fluid fertilizer. Apply postemergence treatments of this product to corn using water only as the carrier. Ballistic may be applied in tank-mix combination with Gramoxone Max, Landmaster BW, Touchdown, or Roundup with or without the above herbicides preplant surface or preemergence to corn. Ballistic alone may also be applied on sorghum early preplant, preplant incorporated, preplant surface, or preemergence in water or in fluid fertilizer

Ballistic may be applied in water by aircraft. Applications in fluid fertilizer should be only by ground equipment.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result. For additional information about spray drift, refer to the AERIAL SPRAY DRIFT MANAGEMENT section found elsewhere on this label.

Do not apply under conditions which 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:

- 1 Avoid treating powdery, dry or light sand 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.
- 3. 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.

Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor or consistent control at a level below that generally considered acceptable for commercial weed control.

Dry weather following preemergence application of Ballistic or a tank mixture may reduce effectiveness. Cultivate if weeds develop in conventional tillage corn or sorghum.

Observe all precautions and limitations on the label of each product used in tank mixtures.

Thoroughly clean sprayer or other application device before using. Dispose of cleaning solution in a responsible manner. Do not use a sprayer or applicator contaminated with other materials, or crop damage or sprayer clogging of the application device may occur

### MIXING INSTRUCTIONS

Shake 2.5 gal. jug well or thoroughly recirculate larger containers and bulk tanks before using Ballistic is a liquid that may be mixed with water or fluid fertilizer and applied as a spray Ballistic may also be sprayed onto dry bulk granular fertilizer and applied with the granular fertilizer.

#### DRY BULK GRANULAR FERTILIZERS

Many dry bulk granular fertilizers may be impregnated or coated with Ballistic and used to control weeds in corn or Concep-treated sorghum

When applying Ballistic with dry bulk granular fertilizers, follow all directions for use and precautions on the Ballistic label regarding target crops, rates per acre, soil texture, application methods, and rotational crops.

All individual state regulations relating to dry bulk granular fertilizer blending, registration, labeling, and application are the responsibility of the individual and/or company selling the herbicide/fertilizer mixture.

Impregnation of bulk fertilizer is restricted to commercial facilities. On-farm 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 24 hours.

Prepare the herbicide/fertilizer mixture by using any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Nozzles used to spray Ballistic onto the fertilizer must be placed to provide uniform spray coverage. Care should be taken to aim the spray onto the fertilizer only, avoiding the walls of the blender.

If the herbicide/fertilizer mixture is too wet, add a highly absorptive material, such as Agsorb® F.G. or Celatom MP-79®, or similar granular clay or diatomaceous earth materials, to obtain a dry, free-flowing mixture, Absorptive materials should be added only after the herbicide has been thoroughly blended into the fertilizer mixture. Best application results will be obtained by using a granule of 6/30 particle size or of a size similar to that of the fertilizer material being used. Generally, less than 2% by weight of absorptive material will be needed. Avoid using more than 5% absorptive material by weight.

Calculate the amount of Ballistic to be used by the following:

2,000 lbs of fertilizer per acre x qts. of Ballistic per acre

qts. of Ballistic per ton of fertilizer.

#### PNEUMATIC (Compressed Air) APPLICATION

High humidity, high urea concentrations, low fertilizer use rates, and dusty fertilizer may cause fertilizer mixtures to build up or plug the distributor head, air tubes, or nozzle deflector plates. To minimize buildup, premix Ballistic with Exxon Aromatic 200 at a rate of 2.0-2.5 pts/gal of Ballistic Aromatic 200 is a noncombustible/nonflammable petroleum product. Aromatic 200 may be used in either a fertilizer blender or through direct injection systems. Drying agents should not be used when using Aromatic 200.

Mixtures of Ballistic and Aromatic 200 must be used on dry fertilizer only. Poor results or crop injury may result if these mixtures are used in water or liquid fertilizer solutions for spraying applications.

When impregnating Ballistic in a blender before application, a drier mixture can be attained, by substituting a drying agent for Aromatic 200. The use of Agsorb F.G. or another drying agent of 6/30 particle size is recommended.

Drying agents are not recommended for use with On-the-Go impregnation equipment.

#### Precautions to follow to avoid the potential for explosion:

- Do not impregnate Ballistic on ammonium nitrate, potassium nitrate, or sodium nitrate, either alone or in blends with other fertilizers.
- Do not combine Ballistic with a single superphosphate (0-20-0) or treble superphosphate (0-46-0).
- Do not use Ballistic on straight limestone, since absorption will not be achieved. Fertilizer blends containing limestone can be impregnated

#### **APPLICATION**

Apply 200-700 lbs. of the herbicide/fertilizer mixture per acre. For best results, apply the mixture uniformly to the soil with properly calibrated equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential in-order to prevent possible-crop injury or injury to subsequent rotational crops. Non-uniform application may also result in unsatisfactory weed control. In areas where conventional tillage is practiced, a shallow incorporation of the mixture into the soil is recommended to obtain satisfactory weed control. On fine- or medium-textured soils in areas where soil incorporation is not planned, i.e., reduced tillage situations or in some conventional till situations, make applications approximately 30 days before planting to allow moisture to move the herbicide/fertilizer mixture into the soil. On coarse-textured soils, make applications approximately 14 days prior to planting.

To help avoid rotational crop injury, make applications as early as possible, since Ballistic impregnated onto dry bulk granular fertilizers can be expected to last longer in the soil than when Ballistic is applied as a spray in water or fluid fertilizer.

To avoid potential crop injury, do not use the herbicide/fertilizer mixture on crops where planting beds are to be formed

#### **APPLICATION IN WATER OR FLUID FERTILIZERS**

**Ballistic Alone:** Fill the spray tank ½ to ¾ full with water or fluid fertilizer, add the proper amount of Ballistic, then add the rest of the water or fluid fertilizer Provide sufficient agitation during mixing and application to maintain a uniform suspension

Tank Mixtures: Fill the spray tank ½ to ¾ full with water or fluid fertilizer, add the proper amount of Ballistic, then add Atrazine, Banvel, linuron, Princep or Balance; next add Parallel; then add Gramoxone Extra, Landmaster BW, Touchdown or Roundup, depending on the tank-mix combination desired; and finally, add the rest of the water or fluid fertilizer. Only water may be used with Ballistic + Liberty Herbicide when applied postemergence to corn designated as tolerant to Liberty (glufosinate); and with Roundup Ultra or Touchdown when applied postemergence to corn designated as tolerant to Roundup (glyphosate). Provide sufficient agitation during mixing and application to maintain a uniform suspension.

Compatibility Test: Check the compatibility of Ballistic and tank mixtures in fluid fertilizer by mixing proportionate quantities in a small container, as described below, before mixing in the spray tank. Nitrogen solutions of complete fluid fertilizers may replace all or part of the water in the spray Since liquid fertilizers can vary, even within the same analysis, always check compatibility each time before reuse. Be especially careful when using complete suspension or fluid fertilizers, as serious compatibility problems are more apt to occur Commercial application equipment may improve compatibility in some instances. The following test assumes a spray volume of 25 gal/A. For other spray volumes, make appropriate changes in the ingredients. Check compatibility using this procedure:

- 1 Add 1 pt. of fertilizer to each of 2 one-qt jars with tight lids.
- 2. To **one** of the jars, add 1/4 tsp. or 1.2 milliliters of a compatibility agent approved for this use, such as Compex® or Unite® (1/4 tsp. is equivalent to 2 pts/100 gals spray). Shake or stir gently to mix.
- 3 To **both** jars, add the appropriate amount of herbicides(s). If more than one herbicide is used, add them separately with dry herbicides first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently, to thoroughly mix. The appropriate amount of herbicides for this test follows:

**Dry herbicides:** For each pound to be applied per acre, add 1.4 teaspoons to each jar. **Liquid herbicides:** For each pint to be applied per acre, add 0.5 teaspoon or 2.5 milliliters to each jar.

- 4. After adding all ingredients, put lids on and tighten, and invert each jar 10 times to mix. Let the mixtures stand 15 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the 2 jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (A) slurry the dry herbicides(s) in water before addition, or (B) add ½ of the compatibility agent to the fertilizer and the other ½ to the emulsifiable concentrate of flowable herbicide before addition to the mixture. If still incompatible, do not use the mixture.
- 5 After compatibility testing is complete, dispose of any pesticide wastes in accordance with the directions in the STORAGE AND DISPOSAL section.

### **SOIL TEXTURE INFORMATION**

Within rate ranges in all tables on this label, use the lower rate on soil relatively coarse-textured or low in organic matter; use the higher rate on soil relatively fine-textures or high in organic matter.

Recommendations are based upon soil textures, which are defined as follows:

Coarse	Sand, Sandy loam, Loamy sand	·
Medium	Loam, Silt Ioam, Silt	
Fine	Silty clay loam, Sandy clay loam, Silty clay, Sandy clay, Clay loam, Clay	

When tank mixing or sequentially applying atrazine or products containing atrazine to corn or sorghum, do not exceed an application rate of 2.0 lbs. atrazine active ingredient per acre for any single application, and the total lbs. of atrazine active ingredient per acre must not exceed 2.5 lbs. active ingredient per acre per year.

# **APPLICATION PROCEDURES**

**Ground Application:** Use sprayers that provide accurate and uniform applications. Screens in nozzles and in suction and in-line strainers should be no finer than 50-mesh. Use a pump with capacity to maintain 35-40 psi at the nozzles, and provide sufficient agitation in tank to keep mixture in suspension. Unless otherwise specified, use a minimum of 10 gals of spray mixture per acre. Rinse sprayer thoroughly with clean water immediately after use.

For band applications, calculate amount to be applied per acre as follows:

Band width in inches
Row width in inches

X Broadcast rate per acre

Amount needed per acre of field

Low Carrier Application (Broadcast Ground Application Only): Use sprayers, such as Ag-Chem RoGator®, Hagie, John Deere Hi-Cycle™, John Deere 4700 Sprayer, Melroe Spra-Coupe, Tyler Patriot™, or Willmar Air Ride®, that provide accurate and uniform application. Only water may be used as a carrier. Screens in suction and in-line strainers should be 50-mesh. Manufacturers may require that tip screens as fine as 100-mesh be used with some nozzles. Use a pump with capacity to maintain up to 35-40 psi at the nozzles, and provide sufficient agitation in tank to keep mixture in suspension. Use a minimum of 5.0 gals. of spray mixture per acre. Maximum recommended sprayer speed is 15 mph. Maintain uniform travel speed while spraying. Rinse sprayer thoroughly with clean water immediately after each use.

**Note:** Low-pressure nozzles are recommended to reduce drift and increase application accuracy. Care should be taken when using automatic rate-controlling devices to spray the material within the rated working pressure and flow ranges of the nozzle selected. Nozzle screens should be used when recommended by the manufacturer. All nozzles should be placed on 20-inch centers, except flooding types, which should be placed on 40-inch centers When Flat Fan-type nozzles are used, angles of 80° of 110° are recommended. Always read and follow the manufacturer's directions for optimum setup and performance of their nozzles or tips

Aerial Application (for Ballistic alone): Use aerial application only where broadcast applications are specified. Apply a minimum of 1.0 gal. of water for each 1.0 gal. of this product applied per acre, but for rates below 1.0 gal/A, use in sufficient water to equal 2.0 gals/A of total spray. Avoid applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 ft, using low-drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive non-target plants, apply Ballistic by aircraft at a minimum upwind distance of 400 ft. from sensitive plants

Avoid application to humans or animals. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

#### **AERIAL SPRAY DRIFT MANAGEMENT**

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- 1. The distance of the outer most nozzles on the boom must not exceed ¾ the length of the wingspan or rotor.
- 2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed

The applicator should be familiar with and take into account the information covered in the AERIAL DRIFT REDUCTION ADVISORY INFORMATION section below.

#### **AERIAL DRIFT REDUCTION ADVISORY INFORMATION**

# **Information on Droplet Size**

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **Wind, Temperature and Humidity, and Temperature Inversions**)

#### **Controlling Droplet Size**

 Volume-Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

- Pressure-Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower
  pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead
  of increasing pressure.
- Number of Nozzles-Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation-Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type-Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

### **Boom Length**

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width

### **Application Height**

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

#### **Swath Adjustment**

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

#### Wind

Drift potential is lowest between wind speeds of 2–10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray draft.

# **Temperature and Humidity**

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

#### **Temperature Inversions**

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small, suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

### Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

# BALLISTIC APPLIED ALONE-CORN (Field, Sweet, Pop), GRAIN SORGHUM, OR FORAGE SORGHUM

#### Early Preplant, Preplant Surface-Applied, Preplant Incorporated, or Preemergence

WEEDS CONTROLLED			
Barnyardgrass (watergrass)	Fall panicum	Jimsonweed	Smartweed
Browntop panicum	Florida pusley	Lambsquarters	Southwestern cupgrass
Carpetweed	Foxtail millet	Morningglory	Velvetleaf*
Chickweed	Galinsoga	Mustards	Waterhemp
Cocklebur*	Giant foxtail	Nightshades	Witchgrass

Common pursiane	Giant ragweed*	Pigweed	Yellow foxtail
Common ragweed	Goosegrass	Prairie cupgrass	Yellow nutsedge*
Crabgrass	Green foxtail	Red rice	
Crowfootgrass	Henbit	Signalgrass(Brachiaria)*	<b>-</b>
	WEEDS PART	IALLY CONTROLLED**	
Sandbur	Shattercane	Volunteer sorghum	Woolly cupgrass
Seedling johnsongrass	Sicklepod		

<sup>\*</sup>Control of these weeds can be erratic, especially under dry weather conditions Control escaped weeds with cultivation or application of an appropriate EPA-registered postemergence herbicide. On fine-textured soils, only partial control can be expected.

\*\*Control may be improved by following these suggested procedures:

- In corn, apply up to the maximum single application rate in Table 1 for your given soil texture and rate limitation based on your soil conservation practices
- Thoroughly till moist soil to destroy germinating and emerged weeds. If Ballistic is to be applied preplant incorporated, this tillage may be used to incorporate Ballistic if uniform 2-inch incorporation is achieved as recommended elsewhere on this label
- Plant crop into moist soil immediately after tillage If Ballistic is to be used preemergence, apply at planting or immediately after planting.
- If available, sprinkler irrigate within 2 days after application Apply ½ 1 inch of water Use lower water volume (1/2 inch) on coarse-textured soils and higher volume (1 inch) on fine-textured soils
- If irrigation is not possible and rain does not occur within 2 days after planting and application, weed control
  may be decreased. Under these conditions, a uniform, shallow cultivation is recommended as soon as weeds
  emerge

# Ballistic Rate Limitations and Precautions-Corn and Sorghum

Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or greater setbacks), which are different from the label, the more restrictive/protective requirements must be followed. Certain states may have established rate limitations within specific geographical areas. Consult your state lead pesticide control agency for additional information. It is a violation of this label to deviate from state use regulations.

When tank mixing or sequentially applying atrazine or products containing atrazine to corn or sorghum, do not exceed an application rate of 2.0 lbs. atrazine active ingredient per acre for any single application, and the total lbs. of atrazine active ingredient per acre must not exceed 2.5 lbs. active ingredient per acre per year.

When tank-mixing or sequentially applying atrazine or other products containing atrazine, the total pounds of atrazine applied (lbs ai/A) must not exceed the specified seasonal rate limits from preemergence, or postemergence, or preemergence + postemergence applications.

For purposes of calculating total atrazine active ingredient applied, Ballistic contains 2.8 lbs a.i. atrazine + related compounds per gal. (0 7 lb a.i./qt.)

#### FOR ALL SOIL APPLICATIONS PRIOR TO CROP EMERGENCE

- On Highly Erodible Soils (as defined by NRCS)
- --If conservation tillage is practiced (leaving at least 30% of the soil covered with plant residues at planting), apply a maximum of 2 85 qts./A as a broadcast spray.
- --If the soil coverage with plant residue is less than 30% at planting, a maximum of 2.29 qts./A may be applied.
- On Soils Not Highly Erodible

Apply 2 85 qts /A as a broadcast spray.

# FOR POSTEMERGENCE APPLICATION

-If no atrazine was applied prior to corn emergence, apply a maximum of 2.85 pts./A broadcast. If a postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 lbs. active ingredient (3.57 qts. of this product) per acre per calendar year.

#### FOR POSTEMERGENCE APPLICATION TO CORN

If no atrazine was applied prior to corn emergence, a maximum of 2 lbs a.i. /A (2.85 qts/A) may be applied postemergence. If a postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 lbs. active ingredient (3.57 qts of Ballistic) per acre per calendar year.

Do not graze or feed forage from treated areas for 60 days following application for all types of corn except sweet corn. For sweet corn, do not graze or feed forage from treated areas for 45 days following application

Do not graze or feed forage from preemergent treated sorghum for 60 days Do not graze or feed forage from post-emergent treated sorghum for 45 days

Post-emergent applications must be made before the crop reaches 12 inches in height.

#### **APPLICATION PROCEDURES**

Early Preplant (Corn): Use on medium- and fine-textured soils with minimum tillage or no-tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, AND WY. Apply 2/3 the recommended rate of Ballistic as a split treatment 30-45 days before planting and the remainder at planting, using the rates in Table 1. Applications made less than 30 days prior to planting may be as either a split or single treatment. Use the lower rate for light expected weed infestations and the higher rate for heavy expected weed infestations. On coarse-textured soils, apply 1.9 qts/A not more than 2 weeks prior to planting. The above procedure may be followed if Atrazine or Parallel or Princep is used in tank mixtures with Ballistic. Substitute a fluid fertilizer for some or all of the water carrier for burndown of existing annual weeds listed on this label up to the 2-leaf stage of development. The addition of crop oil concentrate to the spray mixture will enhance the burndown activity. If larger weeds are present at the time of treatment, apply in a tank-mixture combination with a contact herbicide (for example, Gramoxone Extra or Roundup). Observe directions for use, precautions, and restrictions on the label of the contact herbicide. When tank mixing atrazine containing products, do not exceed 2.0 lbs. ai /A of atrazine as a pre or post application or 2.5 lbs. a i /A as the total of pre plus post applications per calendar year.

On medium- and fine-textured soils with minimum- or no-tillage systems in DE, MD, MI, NY, OH, PA, VA, and WV, early preplant applications may be applied following the directions for use above. If the amount of rainfall results in unsatisfactory length of weed control following the earlier treatment, a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide may be used, i.e., Atrazine, Beacon®, Banvel, Basagran®, bromoxynil (Brominal® or Buctril®), Exceed®, Marksman®, or 2,4-D. If the postemergence treatment includes the herbicide used early preplant, do not exceed the labeled rate for corn on a given soil texture. Observe all directions for use, precautions, and limitations on the label of the postemergent herbicide.

Ballistic may be used according to the above directions to control winter wheat planted as a cover crop in IN, KY, and OH, in addition to providing residual weed control. The wheat must be less than 6 inches tall (preferably still in a dormant or semi-dormant state coming out of winter) at the time of application. Depending on rainfall, 10-20 days may be required to completely kill the wheat. In the event that adequate rainfall does not occur, control of the winter wheat may be unsatisfactory and the application of a contact herbicide (i.e., Gramoxone Extra or Roundup) maybe required before planting the crop

Ballistic may be applied in the fall, as a single application, for control of winter weeds listed on this label within the ecofallow (no-till) production areas of NE and KS where wheat (or other small grain cereals) will be rotated to corn. The application must be made to untilled wheat stubble in the fall following wheat harvest, but before soil freeze-up. The ground must remain untilled through the establishment of the corn crop

On medium- and fine-textured soils following final seed bed preparation in the Blacklands and Gulf Coast areas of TX, an early preplant application of Ballistic at 2.1- 2.37 qts/A may be made 30-45 days before planting. Grass suppression of 2-3 weeks after planting can be expected as a result of this application. Do not incorporate or disturb the soil before planting, and avoid moving the soil during the planting operation. A follow-up application of Parallel may be needed in fields with a history of heavy grass pressure. Apply after planting, but before corn and grass weeds emerge

**Note:** (1) If a follow-up application of Parallel is needed, do not exceed a total of 1.6 lbs. a i. of metolachlor per acre, including the preplant Ballistic application on medium- or fine-textured soils. On fine-textured soils with more than 3% organic matter, do not exceed 1.91 lbs. a i. of metolachlor (2) To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.

Table 1: Ballistic-Early Preplant-Corn

Soil Texture	Single Application	Split application*	
•		30-45 DBP**	At Planting
Coarse (Sand, Loamy sand, Sandy loam)	1.9 qts/A	DO NO.	T APPLY
Medium (Loam, Silt loam, Silt)	2.29 qts/A	1 53 qts/A	0.76 qts/A

Fine (Sandy clay loam, Silty clay loam, Clay loam, Silty clay, Sandy clay, Clay)	2.29 qts/A <sup>A</sup>	1.53 qts/A	0.76 qts/A
	2 29-2 83 qts/A <sup>B</sup>	1.90 qts/A	0 93 qt/A

<sup>\*</sup>Split applications can be made less than 30 days before planting if desired

\*\*DBP- Days before planting

Early Preplant (Sorghum-Seed Treated with Concep or Screen): For minimum-tillage and no-tillage systems only, Ballistic may be applied up to 45 days before planting grain sorghum in IA, IL, eastern KS, MO, NE, and SD, using the rates in Table 2. Use only split applications for treatments made 30-45 days before planting with 2/3 the recommended rate applied initially and the remaining ½ at planting. Applications made less than 30 days prior to planting may be made as either a split or single application.

Substitute a fluid fertilizer for some or all of the water carrier for burndown of existing annual weeds listed on this label up to the 2-leaf stage of development. The addition of crop oil concentrate to the spray mixture will enhance the burndown activity. If larger weeds are present at the time of treatment, apply in a tank-mixture combination with a contact herbicide (for example, Gramoxone Extra, Landmaster BW, or Roundup). Observe directions for use, precautions, and restrictions on the label of the contact herbicide. Under dry conditions, imigation after application is recommended to move Ballistic into the soil.

To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished. Do not use on coarse soils. Do not use on medium soils with less than 1.0% organic matter.

On medium- and fine-textured soils following final seed bed preparation in the Blacklands, Panhandle, and Gulf Coast areas of TX, an early preplant application of Ballistic at  $2.1-2.37\,$  qts/A may be made 30-45 days before planting Grass suppression of 2-3 weeks after planting can be expected as a result of this application.

Do not incorporate or disturb the soil before planting, and avoid moving the soil during the planting operation. A follow-up application of Parallel may be needed in fields with a history of heavy grass pressure. Apply after planting, but before sorghum and grass weeds emerge.

Do not use on soils with a pH greater than 8.0 if grain sorghum is to be planted.

If a follow-up application of Parallel is needed, do not exceed a total of 1.47 lbs. a.i. of metolachlor per acre, including the early preplant Ballistic application on medium-textured soils. On fine-textured soils, do not exceed 1.6 lbs. a.i. of metolachlor per acre.

Table 2: Ballistic-Early Preplant-Grain or Forage Sorghum (Seed treated with Concep or Screen)

Soil Texture	Organic Matter	Single Application	Split App	lication*
	Content		30-45 DBP **	At Planting
Coarse (Sand, Loamy sand, Sandy loam)	Any Level	DO NOT USE	DO NO	T USE
Medium (Loam, Silt	Less than 1.0%	DO NOT USE	DO NO	T USE
Loam, Silt)	More than 1.0%	2.18 qts/A	1.46 qts/A	0.72 qts/A
Fine (Sandy Clay loam, Silty Clay	Less than 1.5% <sup>8</sup>	2.18 qts/A	1.46 qts/A	0 72 qts/A
loam, Clay loam, Sandy clay, Silty clay, Clay)	More than 1.5%	2 18-2 37 qts/A	1.59 qts/A	0 78 qts/A

<sup>\*</sup> Split applications can be made less than 30 days before planting if desired

\*\* DBP - Days before planting

Do not exceed this rate on highly erodible land with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank mix partner or an application of a postemergence herbicide may be needed.

Use these rates for all other applications

A Do not exceed this rate on highly erodible land with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank mix partner or an application of a postemergence herbicide may be needed.

<sup>8</sup> Use these rates for all other applications

Preplant Surface, Preplant Incorporated, or Preemergence (Corn or Sorghum-Seed Treated with Concep or Screen): Apply Ballistic preplant surface, preplant incorporated, or preemergence, using the appropriate rates from Table 3 for corn, or from Table 4 for sorghum

**Preplant Surface:** Apply uniformly to the soil surface within 14 days before planting. Where applications are made to coarse soils more than 7 days before planting, use the rates in Table 1 for corn.

**Preplant Incorporated:** Apply to the soil and incorporate into the top 2 inches of the soil within 14 days before planting, using a finishing disk, finishing harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use the preplant incorporated method if furrow irrigation is used or when a period of dry weather after application is expected. If crop is to be planted on beds, apply and incorporate after bed formation.

Preemergence: Apply to the soil surface at planting (behind the planter) or after planting, but before weeds or crop emerge.

Table 3: Ballistic-Preplant Surface, Preplant Incorporated, or Preemergence-Corn

Soil Texture	Broadcast Rate Per Acre		
	Less Than 3% Organic Matter	3% Organic Matter or Greater	
Coarse (Sand, Loamy sand, Sandy loam)	1.4-1.90 qts.	1 48-1 90 qts	
Medium (Loam, Silt loam, Silt)	1 89-2 29 qts	1 89-2 29 qts	
Fine (Sandy clay loam, Silty clay loam, Clay loam, Sandy clay, Silty	1.89-2 29 qts.	1.90-2.29 qts. <sup>A</sup>	
clay, Clay)		2.29-2.83 qts. <sup>B</sup>	
Muck or peat soils (more than 20% organic matter)	DO	NOT USE	

 For cocklebur, yellow nutsedge, and velvetleaf control on fine-textured soils above 3% organic matter: Apply 2.83 gts of Ballistic per acre.

A Do not exceed this rate on highly erodible land with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank mix partner or an application of a postemergence herbicide may be needed.

Use these rates for all other applications.

In the event of escape of annual weeds following an early preplant, preplant surface, preplant incorporated, or preemergence treatment of Ballistic applied alone or in combination, follow with a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., Atrazine, Beacon, Accent®, Banvel, Basagran, Brominal, Buctril, Exceed, Marksman, or 2,4-D. If the postemergence treatment includes the herbicide used in the earlier treatment, do not exceed the labeled rate on a given scil texture

Brominal or Buctril may be applied postemergence alone or in a tank-mix combination with Atrazine. Do not exceed 1.2 lbs. a.i /A of Atrazine in tank-mix combination with Brominal or Buctril postemergence. Refer to the Atrazine, Brominal, and Buctril labels for specific rates and precautions.

If Atrazine or another product containing atrazine is used postemergence following application of Ballistic, do not exceed a total of 2.5 lbs a.i./A of atrazine per year.

Substitute a fluid fertilizer for some or all of the water carrier for burndown of existing annual weeds listed on this label up to the 2-leaf stage of development. The addition of crop oil concentrate to the spray mixture will enhance the burndown activity. If larger weeds are present, add a contact herbicide as noted in the Ballistic Combinations section of this label

Table 4: Ballistic Preplant Surface, Preplant Incorporated, or Preemergence-Grain or Forage Sorghum\* (Seed treated with Concep or Screen)

Soil Texture	Organic Matter	Broadcast Rate Per Acre
Coarse (Sand, Loamy sand, Sandy loam)	Any level	DO NOT USE

Medium and Fine (Loam, Silt loam, Silt, Sandy clay loam, Silt,	Less than 1.0%	DO NOT USE
clay loam, Clay loam, Sandy clay, Silty clay, Clay)	More than 1 0%	1.90-2.49 qts

<sup>\*</sup> Do not use in NM or TX, except the TX panhandle, Gulf Coast, and Blacklands areas. Do not apply preplant incorporated in AZ or the Imperial Valley of CA.

Substitute a fluid fertilizer for some or all of the water carrier for burndown of existing annual weeds listed on this label up to the 2-leaf stage of development. The addition of crop oil concentrate to the spray mixture will enhance the burndown activity. If larger weeds are present at the time of treatment, add a contact herbicide as noted in the BALLISTIC COMBINATION section of this label.

#### **Precautions:**

- Do not apply Ballistic on highly alkaline soils (pH greater than 8.0) or on eroded areas where calcareous subsoils are exposed.
- Do not apply Ballistic when sorghum is planted in deep furrows because heavy rains following application can cause excessive concentrations of herbicide in the furrow
- Do not apply to sorghum grown under dry mulch tillage.
- Injury may occur if both Ballistic applied early preplant, preplant surface, preplant incorporated, or preemergence and an at-planting systemic insecticide applied in furrow are used.
- In addition, sorghum growing under stress caused by minor element deficiency may be injured by Ballistic.

### **Rotational Crops:**

Do not rotate to food or feed crops other than those listed below:

- If treated crop is lost due to poor germination, hail, flood, insects, etc., corn may be replanted immediately or sorghum may be replanted immediately, provided the seed has been properly treated with Concep or Screen. Do not make a second broadcast application—If the original application was banded and the second crop is planted in the untreated row middles, a second banded treatment may be applied.
- Corn, sorghum, soybeans, cotton, or peanuts may be planted in the spring following treatment. Do not graze or feed forage or fodder from cotton to livestock, or illegal residues may result.
- Injury may occur to soybeans planted the year following application on soil having a calcareous surface layer
- In eastern parts of the Dakotas, KS, western MN, and NE, do not rotate to soybeans for 18 months following application if the rate applied to corn or sorghum was more than 2 0 lbs a.i. of atrazine or equivalent band application rate, or soybean injury may occur.
- If applied after June 10, do not rotate with crops other than corn or sorghum the next year, or crop injury may
  occur.
- In the High Plains and Intermountain areas of the West, where rainfall is sparse and erratic or where irrigation
  is required, use only when corn or sorghum is to follow corn or sorghum, or a crop of untreated corn or
  sorghum is to precede other rotational crops.
- Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small seeded legumes the year following application, or injury may occur

Postemergence Broadcast-Corn

Weeds Controlled			
Barnyardgrass (watergrass)	Green foxtail	Prickly sida	
Cocklebur	Jimsonweed	Purslane	
Common ragweed	Kochia	Smartweed	
Crabgrass	Lambsquarters	Velvetleaf	
Crowfootgrass	Morningglory	Waterhemp	
Fall panicum	Mustard	Yellow foxtail	
Giant foxtail	Pigweed		
Weeds Partially Controlled			
Yellow nutsedge			

**Application:** Apply early posternergence, using the appropriate rate from Table 5. Apply this treatment before grass and broadleaf weeds pass the 2-leaf stage and before corn exceeds 5 inches in height. Application to weeds larger than the 2-leaf stage will generally result in unsatisfactory control. Occasional corn leaf burn may result, but this should not effect later growth or yield. Do not apply posternergence in fluid fertilizer, or severe crop injury may occur.

Table 5: Postemergence Broadcast-Corn

Soil Texture	Broadcast Rate Per Acre
Coarse (Sand, Loamy sand, Sandy loam)	1.90 qts.
Medium (Loam, Silt loam, Silt)	2.29 qts.
Fine (Sandy clay loam, Silty clay loam, Clay loam, Sandy clay, Silty clay, Clay)	2 37-2 83 qts *

<sup>\*</sup>For better residual control of cocklebur, velvetleaf, and yellow nutsedge on fine-textured soils above 3% organic matter, apply 2.83 qts. of Ballistic per acre.

If Ballistic has been applied early preplant, preplant surface, preplant incorporated, or preemergence, do not exceed a total of **2.85 qts./A** of Ballistic on corn crop.

If Atrazine or Atrazine plus Parallel tank mixtures have been applied preplant surface, preplant incorporated, or preemergence, limit the Ballistic early post application not to exceed a total of 2.5 lbs of the active ingredient in Atrazine or 4 lbs of the active ingredient in Parallel per acre on a corn crop, or illegal residues may result

### Rotational Crops:

Follow the preceding crop rotation instructions for Ballistic-Early Preplant, Preplant Surface-Applied, Preplant Incorporated, or Preemergence

#### Postemergence-Directed-Corn

Ballistic may be applied at 1.19-2.37 qts./A in a minimum of 15 gals, of water as a postemergence directed treatment to corn to extend control of weeds listed in the Early Preplant, Preplant Surface-Applied, Preplant Incorporated, Preemergence, or Postemergence Broadcast section of the corn label. Apply using the appropriate rate from Table 6.

For best results, apply Ballistic to weed-free soil following use of a preplant surface, preplant incorporated, or preemergence herbicide, or following a lay-by cultivation. If weeds have emerged at the time of Ballistic application, apply before grass and broadleaf weeds exceed the 2-leaf stage. Application to weeds larger than the two-leaf stage will generally give unsatisfactory control. Apply to corn not exceeding 12 inches in height Minimize contact with corn leaves. Do not apply postemergence in fluid fertilizer, or severe crop injury may occur.

Table 6: Postemergence-Directed-Corn

Soil Texture	Broadcast Rate Per Acre		
Coarse (Sand, Loamy sand, Sandy loam)	1.78-1.90 qts.		
Medium (Loam, Silt loam, Silt)	1.90-2.37 qts.		
Fine (Sandy clay loam, Silty clay loam, Clay loam,	1.90-2.83 qts.*		
Sandy clay, Silty clay, Clay)			

<sup>\*</sup> For better residual control of cocklebur, velvetleaf, and yellow nutsedge on fine-textured soils above 3% organic matter, apply 2 83 qts. of Ballistic per acre.

### **BALLISTIC COMBINATION-CORN\***

Always follow tank mix instruction for tank-mix products when mixing with Ballistic.

"When tank-mixing Ballistic with Atrazine formulations, refer to the Ballistic Rate Limitations section of this label Do not exceed the following:

On highly erodible land with less than 30% plant residue cover prior to crop emergence:	1 6 lbs a.i. of atrazine
On other land prior to crop emergence:	2.0 lbs. a.i. of atrazine
Postemergence applications only-any land:	2.0 lbs. a.i. of atrazine
Preemergence+postemergence applications:	2.5 lbs. a.i. of atrazine

If Ballistic has been applied early preplant, preplant surface, preplant incorporated, or preemergence, do not exceed a total of 3.0 qts/A of Ballistic on corn crop

If Atrazine plus Parallel tank mixtures have been applied preplant surface, preplant incorporated, or preemergence, limit the Ballistic post-directed application not to exceed a total of 2.5 lbs. of the active ingredient in Atrazine or 4 lbs. of the active ingredient in Parallel per acre on a corn crop, or illegal residues may result

# Tank Mixture with Atrazine, Parallel, Princep or Balance-Conventional Tillage

Check the compatibility of Ballistic tank mixtures with Balance before mixing in spray tank by using the procedure described under Application in Water or Fluid Fertilizers.

Atrazine 4L or 90DF: Add up to 1 qt of Atrazine 4L (1.1 lbs. Atrazine 90DF) per acre to the rate of Ballistic recommended in Table 3 in the southeastern U.S. where high rainfall can shorten the duration of control of broadleaf weeds, and in all areas where heavy infestations of cocklebur, morningglory, velvetleaf, or other broadleaf weeds claimed are expected

Parallel: Add up to 0.5 pt. of Parallel per acre to the rate of Ballistic recommended in Table 3 when heavy infestation of yellow nutsedge, sandbur, or seedling johnson grass are expected.

**Princep (4L or 90DF):** Add up to 1 qt. of Princep 4L (1.1 lbs of Caliber 90) per acre to the rate of Ballistic recommended in Table 3 where heavy infestations of crabgrass or fall panicum are expected or additional control of certain broadleafs is desired

Balance (Isoxaflutole) (Field Corn Only): The tank mixture of Ballistic + Balance provides control of weeds listed on the Ballistic label, certain weed biotypes resistant to ALS-inhibitor herbicides and to triazine herbicides, velvetleaf, and others on the respective product labels Balance will contribute to the control of problem grass and other broadleaf species on its label. Application may be preplant (surface-applied up to 14 days before planting), preplant incorporated or preemergence in conventional tillage, conservation tillage and no-till systems. Refer to Table 1: Ballistic – Early Preplant for the early preplant application rate (8-14 days before planting) or refer to Table 3 for the appropriate rate for preplant (surface-applied 0-7 days before planting), preplant incorporated, or preemergence application. Refer to the Application Procedures and Tank Mix Directions on the Balance label, but to reduce the potential for injury from isoxaflutole contact with corn, use 1.0 oz/A of Balance on coarse textured soils and 1.0-1.5 oz/A on medium and fine textured soils in conventional, conservation and no-tillage systems. For early preplant applications 8-14 days before planting, add 0.5 oz/A of Balance to the rates of Balance described above.

Observe all applicable directions, precautions, and limitations on the Ballistic and Balance labels when applying these products in tank mix combinations in states where Balance is registered. Where difficult species and/or severe weed populations are expected, use the maximum rates of Ballistic and Balance where rate ranges are listed for the tank mixture.

# Tank Mixture of Ballistic Alone or Ballistic + Atrazine, Parallel, Princep or Balance with Gramoxone Extra, Landmaster BW, Touchdown or Roundup, for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone Extra, Landmaster BW, Touchdown or Roundup should be tank-mixed with Ballistic alone or with Ballistic + Atrazine, Parallel, Princep or Balance. When used as directed, the Gramoxone Extra portion of the tank mixture controls most emerged annual weeds and suppresses many perennial weeds. Landmaster BW, Touchdown or Roundup combinations will control emerged annual and perennial weeds when applied as directed on its label. The Ballistic portion of the tank mixture provides preemergence control of the weeds listed on this label in the Ballistic Alone section for corn. The addition of Atrazine, Parallel, Princep or Balance offers the advantage indicated for each under Conventional Tillage.

Application: Apply before, during or after planting, but before corn emerges, at the appropriate rate in Table 7. Up to 1.0 qt of Atrazine 4L (1.1 lbs of Atrazine 90DF), or 1.0-2.0 oz of Balance (refer to Tank Mixture with Balance for specific rate), or 0.33 pt of Parallel or 1.0 qt of Princep 4L (1.1 lbs of Caliber 90) per acre may be added to the rate of Ballistic recommended in Table 7. Add Gramoxone Extra, Landmaster BW, Touchdown or Roundup at labeled rates. Tank mixtures with Balance can be used only on field corn.

Apply in 20-60 gals of water per acre with conventional spray equipment

# Tank mixture of Ballistic Alone or Ballistic + Atrazine, or Balance, with 2,4-D or 2,4-D + Banvel for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, Ballistic may be applied in combination with Atrazine or Balance.

When used as directed, the Ballistic portion on the tank mixture provides preemergence control of the weeds listed on this label in the Ballistic Alone section for corn. The addition of Atrazine or Balance offers the advantage indicated for each under Conventional Tillage.

**Application:** Apply Ballistic before, during, or after planting, but before corn emerges, at the appropriate rate in Table 7, Up to 1 qt. of Atrazine 4L (1.1 lbs of Atrazine 90DF) or 1.0-2 0 oz of Balance (Refer TO Tank Mixture with Balance for specific rate) per acre may be added to the rate of Ballistic recommended in Table 7.

Where heavy crop residues exist, add an appropriately labeled 2,4-D amine or low volatile ester to the spray tank last and apply in a minimum of 25 gals. of carrier per acre.

As carriers, nitrogen solutions and complete liquid fertilizers, applied before corn emergence, enhance burndown of existing weeds, and therefore are recommended instead of water. Add X-77® surfactant at 1 0-2.0 qts./100 gals. of diluted spray or another surfactant cleared for use on growing crops at its recommended rate. Apply before weeds exceed 3 inches in height if alfalfa is present, add Banvel to the spray mixture at 0 33-0.5 pt/A and apply before the alfalfa exceeds 6 inches in height

For fields with existing sod grasses (e.g., bromegrass, orchardgrass, rye, or timothy), when existing weeds exceed 3 inches in height or when very dry conditions exist, add Gramoxone Max at the rate of 2.5 pts./A in place-of, or in addition to 2,4-D as indicated above. Do not apply Gramoxone Max in suspension-type liquid fertilizer Observe all directions for use, precautions, and limitations in the respective product labels when applying these products in tank-mix combination.

Table 7: Ballistic for Minimum-Tillage or No-Tillage Corn

Soil Texture	Broadcast Rate Per Acre		
Coarse (Sand, Loamy sand, Sandy loam)	1.90 qts.		
Medium (Loam, Silt Ioam, Silt)	2.29 qts.		
Fine (Sandy clay loam, Silty clay loam, Clay loam, Sandy	2.29 qts. <sup>A</sup>		
clay, Silty clay, Clay)	2.37-2.83 qts.* <sup>8</sup>		
Muck or peat soils	DO NOT USE		

<sup>\*</sup>For cocklebur, velvetleaf, and yellow nutsedge control on fine-textured soils above 3% organic matter, apply 2.83 gts. of Ballistic per acre

# Tank mixture with Linuron for Control of Lambsquarters and Pigweed

For prolonged control of lambsquarters and pigweed in DE, MD, NJ, NY, PA, VA, and WV, Ballistic may be applied preemergence in combination with linuron Apply Ballistic according to the rates in Table 3 and linuron according to the following rates:

Soil Texture	Broadcast Rate Per Acre
Sandy loam (1-3% organic matter)	0.67 lb. Lorox*
Sandy loam (3-6% organic matter)	1,0 lb. Lorox*
Medium- and fine-textured soils (1-6% organic matter)	1.0 lb. Lorox*

<sup>\*</sup>When using Lorox L or Lorox DF, use equivalent rates. One pt. of Lorox L equals 1 lb. of Lorox DF. Follow instructions and precautions on the Ballistic and Lorox labels when tank-mixing these products.

#### Rotational Crops:

Follow the crop rotation instructions in the Ballistic Alone section for corn.

# Tank Mixture with Callisto<sup>®</sup> (Mesotrione)

For preemergence control of weeds in corn, Ballistic may be applied in combination with Callisto. Apply Ballistic according to the rates in Table 3 and Callisto at a rate of 5 0-6 0 fl oz/A. Observe all directions for use, precautions, and limitations on the respective product labels when applying these products in a tank mixture.

# **BALLISTIC COMBINATIONS-FIELD CORN ONLY**

#### Tank Mixture with Broadstrike + Dual for Preemergence Weed Control in Field Corn Only

Reduced rates of Broadstrike + Dual herbicide and Ballistic herbicide may be tank mixed for control of several annual grasses and broadleaf weeds in field corn. In addition to the weeds listed as controlled on the Ballistic label, this mixture will control velvetleaf and triazine resistant populations of lambsquarters, pigweed and velvetleaf. Weeds partially controlled by this tank-mix include those under the WEEDS PARTIALLY CONTROLLED section of the Ballistic label plus common ragweed and morningglory. Control of a few weeds can be erratic. Refer to the WEEDS CONTROLLED section of this label for further information.

Do not exceed this rate on highly erodible land with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank mix partner or an application of a postemergence herbicide may be needed

Use these rates for all other applications

The Broadstrike + Dual and Ballistic tank mix may be applied preplant incorporated, preemergence, or applied postemergence through the "spike" stage of corn growth, but before weed emergence. When applied postemergence to the crop, apply only with water before corn is 2 inches tall and first true leaf is unfurled. Target weeds that have emerged at the time of application may not be controlled.

### Mixing Instructions:

Fill the spray tank 1/2 to 1/2 full with water or liquid fertilizer and start agitation. Add the required amount of Ballistic and allow to become fully dispersed, then add the required amount of Broadstrike + Dual then add the rest of the water or liquid fertilizer. For tank mixtures with liquid fertilizers, always check compatibility as described on the labels for Ballistic and Broadstrike + Dual

#### Precautions and Restrictions:

- Do not apply more than two weeks before planting
- Do not apply to field corn grown for seed.

  Do not use when Counter® or Thimet® insecticides are to be applied due to the risk of severe crop injury.
- Plant corn at least 11/2 inches deep.
- Refer to the product labels for Broadstrike + Dual and Ballistic for specific use restrictions, use precautions, and rotational crop intervals. The most restrictive provisions on either label shall apply.

Table 8: Broadcast Application Rate Per Acre For Preemergence Weed Control in Field Corn

	Less Than 3% Organic Matter		Greater Than 3% Organic Matter			
Soil Texture	Broadstrike + Dual (pts)	+	Ballistic (pts)	Broadstrike + Dual (pts)	+	Ballistic (pts)
Coarse	1.5	-	1.78	1.5	+	1.89
Medium	1.5-1.75 <sup>2</sup>	+	2.13	1.75	+	2.6
Fine	1.75	+	2.49	2.0	+	2.37-2.83 <sup>2</sup>

Application on soils with <1.5% organic matter may result in unacceptable crop injury

Follow directions in the BALLISTIC APPLIED ALONE section of this label for improved control of certain weeds, Add 1-2 pts/A of Atrazine 4L or equivalent rate of Atrazine 90DF for an improved spectrum of broadleaf control and for more effective burndown in no-till or minimum till situations. Follow atrazine rate restrictions on the Atrazine label.

Triazine "resistant" weeds (triazine tolerant biotypes) are controlled by the tank mixture of Broadstrike + Dual and Ballistic.

#### TANK MIXTURE FOR POSTEMERGENCE SALVAGE WEED CONTROL IN FIELD CORN ONLY

Ballistic + Liberty Herbicide: Postemergence Use in LibertyLink® Corn or Corn Warranted by Bayer CropScience as being tolerant to Liberty Herbicide: The tank mixture of Ballistic + Liberty Herbicide can be applied postemergence to weeds and corn from seed designated as LibertyLink or corn warranted by Bayer CropSciences as being tolerant to Liberty Herbicide. Liberty provides postemergence control of a broad spectrum of grass and broadleaf weeds and the Ballistic provides residual control of grasses and broadleaf weeds listed in the label section Ballistic Applied Alone - Weeds Controlled. For the proper rate of Ballistic applied postemergence, refer to Table 5 and use the minimum rate per soil texture for season-long residual control. Refer to the Liberty label for the Liberty postemergence application rate according to weed species and their maximum height at the time of postemergence application. Where multiple weed species are present, use the highest Liberty rate recommended to control the species and growth stages present. Follow all applicable use directions, limitations, precautions and information regarding application to corn on the Ballistic and Liberty Herbicide labels

Ballistic + Touchdown or Roundup Ultra (glyphosate) for Postemergence Application to Corn with the Roundup Ready® Gene-The tank mixture of Ballistic + Touchdown or Roundup Ultra can be applied postemergence to weeds and to corn designated as containing the Roundup Ready Gene. Application may be applied postemergence to Roundup Ready corn up to 12 inches in height. This mixture will provide postemergence control of weed species on the Roundup Ultra label and also residual control of weed species on the Ballistic label. Use the minimum Ballistic rate postemergence with Roundup Ultra in Roundup Ready corn as specified in Table 5 of this label according to soil texture Refer to the Supplemental Labeling of Touchdown or Roundup Ultra for Postemergence Applications to Corn with the Roundup Ready Gene and to each product label and follow all appropriate use directions, application procedures, precautions, and limitations. Apply 24-32 fl. oz/A of Roundup Ultra for control of problem species Follow all applicable use directions, limitations, precautions, and

<sup>&</sup>lt;sup>2</sup>Use the higher rate in fields with heavy weed pressure

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information regarding application to corn on the Ballistic and Roundup Ultra labels, and on the Supplemental labeling of Roundup Ultra for Postemergence Application to Corn with the Roundup Ready Gene. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

Ballistic + Exceed: Apply 1 78-2 37 qts/A of Ballistic + 1.0 oz/A of Exceed to corn that is 4 to 12 inches tall. The application may be broadcast, semi-direct, or direct. The Ballistic rate is based on the soil texture, with 1.78 qts/A on coarse, and 1 99-2.37 qts/A on medium and fine soils. Add a nonionic surfactant at 0.25% v/v

This mixture is effective for control of many annual broadleaf weeds and some grasses. A few instances of broadleaf weed control antagonism have been observed with this combination. Control of certain annual grasses can be improved with the addition of Accent

Ballistic + Exceed + Accent: Apply the same rates of Ballistic and Exceed as mentioned above. Add Accent at 0.33 oz./A for more effective control of certain annual grasses. Apply to field corn between 4 and 12 inches. Add a nonionic surfactant at 0.25% v/v.

Ballistic + Spirit: Spirit herbicide at 1.0 oz /A can be substituted in place of Exceed in the above combinations in field corn only.

Do not use fertilizer or crop oil concentrate with these mixtures or injury to field corn may occur. The combination of Ballistic with other products for postemergence weed control in corn is generally not recommended. These combinations may cause injury and/or weed control concerns that would not exist when the products are used separately. A certain inherent risk is involved when the various combinations of these products used postemergence in corn. It should be noted that early preplant, preplant incorporated, or preemergence control of these weeds would usually provide more timely weed control resulting in higher yields that postemergence treatments.

#### Mixing Order:

Add these products to the tank mix in the following order:

- 1. Products in water-soluble bags should be added first.
- 2. Ballistic
- 3. Additives

#### **Precautions:**

- Follow all label instructions, precautions, and rotational restrictions for individual products when making these
  applications to field corn. When Ballistic is applied after June 10, crop injury may occur the following year if
  you rotate to crops other than corn or sorghum.
- In-row weed control may be reduced because of lack of coverage when applied to corn over 4 inches tall.

# BALLISTIC COMBINATIONS-GRAIN AND SORGHUM (SEED TREATED WITH CONCEP OR SCREEN)

Tank mixture with Ballistic with Gramoxone Extra, Landmaster BW, Touchdown or Roundup for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where grain sorghum is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone Extra, Landmaster BW, Touchdown or Roundup may be tank mixed with Ballistic When used as directed, the Gramoxone Extra portion of the tank mixture controls most emerged annual weeds and suppresses many perennial weeds Landmaster BW, Touchdown or Roundup combinations will control emerged annual and perennial weeds when applied as directed on its label. The Ballistic portion of the tank mixture provides preemergence control of the weeds listed on this label in the BALLISTIC APPLIED ALONE section.

Refer to the label of each product used in combination and observe the planting details, restrictions, and all other precautions and limitations

**Application:** Apply before, during or after planting, but before grain sorghum emerges, at the appropriate rate in Table 9 Add Gramoxone Extra, Landmaster BW, Touchdown or Roundup at the labeled rates.

Apply in a minimum of 20 gals, of water per acre with conventional spray equipment

Table 9: Ballistic for Minimum-Tillage or No-Tillage Grain Sorghum\*
(Seed treated with Concep or Screen)

Soil Texture	Organic Matter	Broadcast Rate Per Acre
Coarse (Sand, Loamy sand, Sandy loam)	Any level	DO NOT USE
Medium and Fine (Loam, Silt loam, Silt, Sandy clay	Less than 1.0%	DO NOT USE
loam, Silty clay loam, Clay loam, Sandy clay, Silty	1-1.5%	2.18 qts.
clay, Clay)	More than 1.5%	2.37 qts.

<sup>\*</sup> Do not use in NM or TX, except the TX panhandle, Gulf Coast, and Blacklands areas. Do not apply preplant incorporated in AZ or the Imperial Valley of CA.

#### Precautions:

- Do not apply Ballistic on highly alkaline soils (pH greater than 8.0) or on eroded areas where calcareous subsoils are exposed.
- Do not apply Ballistic when sorghum is planted in deep furrows because heavy rains following application can cause excessive concentrations of herbicide in the furrow
- Do not apply to sorghum grown under dry mulch tillage
- Injury may occur if both Ballistic applied early preplant, preplant surface, preplant incorporated, or preemergence and an at-planting systemic insecticide applied in furrow are used.
- In addition, sorghum growing under stress caused by minor element deficiency may be injured by Ballistic.

### **Rotational Crops:**

Follow the crop rotation instructions in the BALLISTIC ALONE section

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool dry place. Store product in original container only.

**PESTICIDE DISPOSAL:** Open dumping is prohibited. Wastes resulting from the use of this product are toxic. Improper disposal of unused pesticide is a violation of Federal law. Pesticide that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

**CONTAINER DISPOSAL:** Do not reuse empty container. Triple rinse (or equivalent), puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call Chemtrec at 1-800-424-9300, day or night.

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Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

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