

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

September 4, 2018

Patricia McFadden Registration Manager Sipcam Agro USA, Inc. 2525 Meridian Parkway, Suite 350 Durham, NC 27713

Subject: Label Amendment – Adding use on sorghum to the label

Product Name: Stalwart Xtra Lite Herbicide

EPA Registration Number: 60063-48

Application Date: 10/26/2016 Decision Number: 525143

Dear Ms McFadden:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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

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with FIFRA section 6. If you have any questions, please contact Nathan Mellor by phone at 703-347-8562, or via email at mellor.nathan@epa.gov.

Sincerely,

Kathryn Montague, Product Manager 23

Herbicide Branch

Registration Division (7505P) Office of Pesticide Programs

Enclosure

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.

ACCEPTED

09/04/2018

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 2000 40

60063-48

Atrazine	Group	5	Herbicide
Metolachlor	Group	15	Herbicide

21.3%

26.1%

Stalwart® Xtra Lite Herbicide

FOR WEED CONTROL IN CORN (ALL TYPES) AND SORGHUM

Active Ingredient: Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine)

Atrazine Related Compounds 0.5%

Metolachlor: 2-chloro- N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide

Other Ingredients: 52.1%

TOTAL: 100.0%

This product contains 2.0 lbs. atrazine + related compounds per gallon and 2.4 lbs. of metolachlor active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

	FIRST AID		
IF SWALLOWED	Call a poison control center or doctor immediately for treatment advice.		
	Have affected person sip a glass of water if able to swallow.		
	Do not induce vomiting unless told by a poison control center or doctor.		
	Do not give anything by mouth to an unconscious person.		
IF ON SKIN OR	Take off contaminated clothing.		
CLOTHING	Rinse skin immediately with plenty of water for 15-20 minutes.		
	Call a poison control center or doctor for treatment advice.		
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15-20 minutes.		
	Remove contact lenses, if present, after the first 5 minutes, then continue		
	rinsing eye.		
	Call a poison control center or doctor for treatment advice.		
IF INHALED	Move person to fresh air.		
	If person is not breathing, call 911 or an ambulance, then give artificial		
	respiration, preferably mouth to mouth if possible.		
 Call a poison control center or doctor for further treatment advice. 			
Have the product container or label with you when calling a poison control center or doctor, or going			
for treatment.			
Emergency phone numbers (800) 424-9300 CHEMTREC (transportation and spills)			
(800) 900-4044 Poison Control Center			
•	If ingested, induce emesis or lavage stomach. Administration of an aqueous		
slurry of activated cl	slurry of activated charcoal can be considered. Treat symptomatically.		

EPA Reg. No. 60063-48	[Date code / Lot Number]	
EPA Est. No	Net Contents: [Gallons] [gal.] (Lit	ers)

[Lot begins with xx] [used when there are multiple Est. No.]

Stalwart Xtra Lite EPA Reg No. 60063-48

See additional precautionary statements and directions for use inside booklet.

Read the entire label carefully before using this product.

Note: Not for sale, use, or distribution in Nassau County or Suffolk County, New York.

[Optional language]
[Pull open here]
[[Pull] [Peel] back book here]
[Application Type] [AG] [Agriculture]
[Formulated in the United States of America, with U.S. and imported ingredients.]
[Product of] [if manufactured in a country other than U.S., country name will appear here]
[Herbicide]

Manufactured for: Sipcam Agro USA, Inc. 2525 Meridian Parkway, Suite 350 Durham, NC 27713

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through skin. Avoid contact with skin, or clothing or eyes. Causes moderate eye irritation. Harmful if inhaled. Do not breathe vapors or spray mist. Prolonged or frequently skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT

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

- Coveralls over Long-sleeved shirt and long pants,
- Chemical-resistant gloves, made of Barrier Laminate, Butyl Rubber ≥ 14 mils, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, Polyvinyl Chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils.
- Chemical-resistant footwear plus socks,
- Chemical-resistant headgear (if overhead exposure), and
- A chemical-resistant apron, when mixing/loading, cleaning up spills, or cleaning equipment, or otherwise exposed to the concentrate.

See **Engineering Controls** for additional requirements.

User Safety 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 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 long-sleeved shirt and long pants, chemical resistant gloves made of waterproof materials, shoes and socks,
- 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: coveralls, chemical resistant footwear, and chemical resistant apron.

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 need not wear chemical-resistant gloves when using an enclosed cockpit. Flaggers supporting aerial applications must use an enclosed cab that meets the definition on the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240 (d)(5)] for dermal protection.

In addition, flaggers must:

- Wear the PPE required on this labeling for flaggers.
- Be provided, have immediately available, and use in an emergency when they must exit the cab in the treated area: Coveralls, chemical resistant gloves made of waterproof materials, chemical resistant footwear, and chemical resistant headgear (if overhead exposure);
- Take off any PPE that was worn in the treated area before reentering the cab;
- Store all such PPE in a chemical resistant container, such as a plastic bag, to prevent contamination of the cab.

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

This pesticide contains atrazine, which is toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water and rinsate.

Ground Water Advisory

Stalwart Xtra Lite contains both the active ingredients atrazine and metolachlor.

Atrazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Atrazine has been found in groundwater. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (groundwater) 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 groundwater.

Metolachlor has the potential 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 has the potential to 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 waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface

water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

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-valves or anti-siphoning devices must be used on all mixing and/or irrigation equipment.

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 leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An 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 capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading sites.

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

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 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.

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

- Do not apply this product within 66 feet 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.

DIRECTIONS FOR USE

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

ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consult the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be accessed through www.atrazine-watershed.info 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 Sipcam Agro USA, Inc. for a refund.

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

FOR ALL TANK MIXTURES: It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

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, including plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves, made of Barrier Laminate, Butyl Rubber ≥ 14 mils, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, Polyvinyl Chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils.
- Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

Note: Not for sale, use, or distribution in Nassau County or Suffolk County, New York.

PRODUCT INFORMATION

Stalwart Xtra Lite is a selective herbicide for use before planting, before or after emergence (see directions) for control of most annual grasses and broadleaf weeds in corn (all types). **Stalwart Xtra Lite** can also be used before crop emergence for control of most annual grasses and broadleaf weeds in sorghum, only if the sorghum seed has been properly treated with Concep® or Screen®. This product may be tank mixed with other herbicides specified on this label for weed control in conventional, minimum-till, and no-till corn, or sorghum.

Following many years of continuous use of atrazine (one of the ingredients in **Stalwart Xtra Lite**), 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 **Stalwart Xtra Lite** in combination or in sequence with registered herbicides, which do not contain triazines. Consult with your State Agricultural Extension Service for specific directions.

Stalwart Xtra Lite EPA Reg No. 60063-48

FOR ALL TANK MIXTURES: It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

When tank-mixing or sequentially applying simazine and/or atrazine or products containing either active ingredient to corn, the total pounds of simazine and/or atrazine applied (lbs ai/A) must not exceed either 2.0 pounds active ingredient per single application or 2.5 pounds active ingredient per/acre/calendar year.

For corn, **Stalwart Xtra Lite** alone or in tank mixture with atrazine, isoxaflutole, metolachlor, or simazine may be applied early preplant, preplant surface, preplant incorporated, or preemergence, in water or fluid fertilizer. Apply post-emergence treatments of **Stalwart Xtra Lite** on corn using water only as the carrier. **Stalwart Xtra Lite** may be applied on corn in tank mix combination with paraquat, 2,4-D + glyphosate, or glyphosate with or without the above herbicides preplant surface or preemergence.

For sorghum, **Stalwart Xtra Lite** alone or in tank mixtures may be applied early preplant, preplant surface, preplant incorporated, or preemergence, in water or fluid fertilizer. **Stalwart Xtra Lite** may be applied on sorghum in tank mix combination with paraquat, 2,4-D + glyphosate, or glyphosate with or without the above herbicides preplant surface or preemergence.

Stalwart Xtra Lite may be applied in water by aircraft. If this product is to be applied in fluid fertilizer, ground equipment must be used for application.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

RESTRICTIONS:

- DO NOT apply this product through any type of irrigation system.
- DO NOT apply this product in a greenhouse.
- DO NOT graze or feed forage from treated areas for 60-days following application to corn (all types) and sorghum. (60 day PHI)
- Post-emergent applications to corn must be made before the crop reaches 12 inches in height.
- DO NOT apply under conditions, which favor runoff or wind erosion of soil containing this product to nontarget areas.

To prevent off-site movement due to runoff or wind erosion:

- Avoid treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, allow the soil surface to first be settled by rainfall or irrigation.
- DO NOT apply to impervious substrates, including paved or highly compacted surfaces.
- DO NOT use tailwater from the first flood or furrow irrigation of treated fields to treat nontarget crops, unless at least 1/2 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 considered acceptable for commercial weed control.

Dry weather following preemergence application of **Stalwart Xtra Lite** or a tank mixture may reduce effectiveness. Cultivate if weeds develop.

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.

RESISTANCE MANAGEMENT

For resistance management, please note that Stalwart Xtra Lite contains both a Group 5 (Atrazine) and a Group 15 (Metolachlor) herbicide. Any weed population may contain plants naturally resistant to Group 5 and/or Group 13 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of this product or other Group 13 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where
 information on resistance in target weed species is available, use the less resistance-prone
 partner at a rate that will control the target weed(s) equally as well as the more resistance-prone
 partner. Consult your local extension service or certified crop advisor if you are unsure as to which
 active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses
 historical information related to herbicide use and crop rotation, and that considers tillage (or other
 mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer
 application method and timing to favor the crop and not the weeds), biological (weed-competitive
 crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistancemanagement and/or integrated weed-management recommendations for specific crops and weed biotypes.

INTEGRATED WEED PEST MANAGEMENT

Integrate this product into an overall weed pest management strategy whenever the use of an herbicide is required. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding) should be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

MIXING PROCEDURES

Shake 2.5 gallon jugs well and thoroughly re-circulate larger containers and bulk tanks before using. **Stalwart Xtra Lite** is a liquid that may be mixed with water or fluid fertilizer and applied as a spray. **Stalwart Xtra Lite** 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 **Stalwart Xtra Lite** and used to control weeds in corn, and Screen®-treated or Concep®-treated sorghum. When applying **Stalwart Xtra Lite** with dry bulk granular fertilizers, follow all directions for use and precautions on the **Stalwart Xtra Lite** label regarding target crops, rates per acre, soil texture, application methods (including timing of application), 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 **Stalwart Xtra Lite** onto the fertilizer must be placed to provide uniform spray coverage. Take care to aim the spray directly onto the fertilizer only and to avoid spraying the walls of the blender. If the herbicide/fertilizer mixture is too wet, add a highly absorptive material, such as Agsorb® or Celatom MP-79®, or similar granular clay or diatomaceous earth materials, to obtain a dry, free-flowing mixture. Add absorptive materials 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. Typically, less than 2% by weight of absorptive material will be needed. Avoid using more than 5% absorptive material by weight.

Calculate the amount of **Stalwart Xtra Lite** to be used by the following formula:

2,000 lbs. of fertilizer per acre	Χ	pts./A of liquid or flowable product	=	pts. of liquid or flowable product per ton of fertilizer
2,000 lbs. of fertilizer per acre	Χ	lbs./A of dry product	=	lbs. of dry product 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 **Stalwart Xtra Lite** with Exxon Aromatic 200 at a rate of 2.0-2.5 pts./gal. of **Stalwart Xtra Lite**. 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. Drying agents are not recommended for use with On-The-Go impregnation equipment. Consult the manufacturer's SDS for information relating to the flammability of this solvent.

When impregnating **Stalwart Xtra Lite** in a blender before application, a drier mixture can be attained by substituting a drying agent for Aromatic 200. The use of Agsorb FG or drying agents of 6/30 particle size is recommended.

RESTRICTIONS:

- Mixtures of Stalwart Xtra Lite and Aromatic 200 must be used on dry fertilizer only.
- **DO NOT** impregnate **Stalwart Xtra Lite** on ammonium nitrate, potassium nitrate, or sodium nitrate, either alone or in blends with other fertilizers.
- **DO NOT** combine **Stalwart Xtra Lite** with a single superphosphate (0-20-0) or treble superphosphate (0-46-0).
- **DO NOT** use **Stalwart Xtra Lite** 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. Nonuniform application may also result in unsatisfactory weed control. In areas where conventional tillage is practiced, use a shallow incorporation of the mixture into the soil 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.

Precautions:

- To help avoid rotational crop injury, make applications as early as possible, since **Stalwart Xtra Lite** impregnated onto dry bulk granular fertilizers can be expected to last longer in the soil that when **Stalwart Xtra Lite** 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

Stalwart Xtra Lite Alone: Fill the spray tank 1/2-3/4 full with water or fluid fertilizer, add the proper amount of **Stalwart Xtra Lite**, 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 1/2-3/4 full with water or fluid fertilizer, add the proper amount of **Stalwart Xtra Lite**, then add atrazine, dicamba, isoxaflutole, linuron, or simazine; next add metolachlor; then add paraquat, 2,4-D + glyphosate, or glyphosate, depending on the tank mix combination desired; and finally, add the rest of the water or fluid fertilizer. Only water may be used with **Stalwart Xtra Lite** + glufosinate when applied postemergence to corn containing a glufosinate tolerant gene trait, and with glyphosate when applied postemergence to corn containing a glyphosate tolerant gene trait. Provide sufficient agitation during mixing and application to maintain a uniform suspension.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Compatibility Test

Perform a jar test before tank mixing to ensure compatibility of **Stalwart Xtra Lite** with other pesticides. The following test assumes a spray volume of 25 gals./A. For other spray volumes, make appropriate changes in the ingredients.

Note: Nitrogen solutions or complete fluid fertilizers may replace all or part of the water in the spray. Since liquid fertilizers vary, even within the same analysis, **always check compatibility with pesticide(s) each time before use**. Incompatibility of tank mixtures is more common with suspensions of fertilizer and pesticides. Commercial application equipment may improve compatibility in some instances. Check compatibility using this procedure:

- 1. Add 1.0 pt. of carrier (fertilizer or water) to each of 2 one-qt. jars with tight lids. **Note:** Use the same source of water that will be used for the tank mix and conduct the test at the temperature the tank mix will be applied.
- 2. To **one** of the jars, add 1/4 tsp. or 1.2 milliliters of a compatibility agent approved for this use (1/4 tsp. is equivalent to 2.0 pts./100 gals. spray). Shake or stir gently to mix. When an adjuvant is needed, use a Council of Producers & Distributors of Agrotechnology (CPDA) certified adjuvant.
- 3. To **both** jars, add the appropriate amount of pesticide(s) in their relative proportions based on label rates. If more than one pesticide 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 1.5 level 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 15-30 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 pesticide(s) in water before addition, or (B) add 1/2 of the compatibility agent to the fertilizer or water and the other 1/2 to the emulsifiable concentrate or flowable pesticide before addition to the mixture. If incompatibility is still observed, do not use the mixture.
- 5. After compatibility testing is complete, dispose of any pesticide wastes in accordance with the **Storage and Disposal** section in this label.

SOIL TEXTURE INFORMATION

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

Rates are based upon soil textural classes, categorized as follows:

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

APPLICATION INFORMATION

Ground Application: Use sprayers that provide accurate and uniform application. Screens in nozzles and in suction and in-line strainers should be no finer than 50-mesh. Use a pump with capacity to: (1) maintain 35-40 psi at the nozzles, and (2) 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

Tow width in inches

X broadcast rate per acre = amount needed per acre of field

Low Carrier Application (Broadcast Ground Application Only): Use sprayers 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: (1) maintain up to 35-40 psi at the nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension. Use a minimum of 5.0 gals. of spray mixture per acre. Maximum sprayer speed is 15 mph. Maintain uniform travel speed while spraying. Rinse sprayer thoroughly with clean water immediately after each use.

Note: Use low pressure nozzles 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 directed 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° or 110° are best. Always read and follow the manufacturer's directions for optimum setup and performance of their nozzles or tips.

Aerial Application (for Stalwart Xtra Lite 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 nontarget plants, apply **Stalwart Xtra Lite** by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

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

Aerial 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 outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- 2. Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they must 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 specified 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. 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 must 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 must be avoided below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect spray drift.

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 must 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 must 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, nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Rate Limitations

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.

Note: For purposes of calculating total atrazine active ingredient applied, **Stalwart Xtra Lite** contains 2.0 lbs. a.i. atrazine + related compounds per gal. (0.5 lbs. ai/qt.).

ROTATIONAL CROPS

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

- (1) If treated crop is lost due to poor germination, hail, flood, insects, etc., corn or sorghum may be replanted immediately. 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.
- (2) Corn, sorghum, soybeans, cotton, or peanuts may be planted the spring following treatment. Do not graze or feed forage or fodder from cotton to livestock, or illegal residues may result.
- (3) Injury may occur to soybeans planted the year following application on soils having a calcareous surface layer.
- (4) If this product is registered in any of the following states, this restriction applies. 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.
- (5) If applied after June 10, do not rotate with crops other than corn or sorghum the next year, or crop injury may occur.
- (6) If this product is registered in any of the following states, this restriction applies. In the High Plains and Inter-mountain 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.
- (7) 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.

WEED CONTROL INFORMATION

Stalwart Xtra Lite is effective for the control of grassy and broadleaf weed plants that can infest agricultural fields. The spectrum of effective weed control may differ depending upon the application pattern and timing of application(s) of this product. The following table is a partial illustration of the potential usefulness of this product to mitigate the growth of weeds.

Weeds Controlled – Preplant and Preemergence Applications				
barnyardgrass	crowfootgrass	henbit	smartweed	
(watergrass)	fall panicum	jimsonweed	signalgrass	
browntop panicum	Florida pusley	lambsquarters	(Brachiaria)*	
carpetweed	foxtail millet	morningglory	southwestern cupgrass	
chickweed	galinsoga	mustards	velvetleaf*	
cocklebur*	giant foxtail	nightshades	waterhemp	
common purslane	giant ragweed*	pigweed	witchgrass	
common ragweed	goosegrass	prairie cupgrass	yellow foxtail	
crabgrass	green foxtail	red rice	yellow nutsedge*	
W	leeds Controlled - P	ostemergence Applica	tions	
barnyardgrass	fall panicum	kochia	purslane	
(watergrass)	flixweed	lambsquarters	ragweed	
cocklebur	giant foxtail	morningglory	smartweed	
common ragweed	green foxtail	mustard	velvetleaf	
crabgrass	yellow foxtail	pigweed	waterhemp	
crowfootgrass	jimsonweed	prickly sida		
Weeds Partially Controlled**				
sandbur	shattercane	volunteer sorghum		
seedling johnsongrass	sicklepod	woolly cupgrass		

^{*} 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.

- 1. Apply up to the maximum single application rate for your given soil texture and rate limitation based on your soil conservation practices (see individual crop sections).
- 2. Thoroughly till moist soil to destroy germinating and emerged weeds. If Stalwart Xtra Lite is to be applied preplant incorporated, this tillage may be used to incorporate Stalwart Xtra Lite if uniform 2-inch incorporation is achieved as indicated under Application Procedures.
- 3. Plant crop into moist soil **immediately after tillage**. If **Stalwart Xtra Lite** is to be used preemergence, apply at planting or immediately after planting.
- 4. If available, **sprinkler irrigate** within 2 days after application. Apply 1/2-1 inch of water. Use lower water volume (1/2 inch) on coarse-textured soils and higher volume (1 inch) on fine-textured soils.
- 5. 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, perform a uniform, shallow cultivation as soon as weeds emerge.
- 6. Following an application of **Stalwart Xtra Lite** to large-seeded broadleaf weeds, or those listed as partially controlled, a subsequent application of a post-emergence herbicide may be made if needed.

^{**} Control may be improved by following these suggested procedures:

CORN APPLICATION PROCEDURES

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours

EARLY PREPLANT

If you apply this product early preplant, use the appropriate rate from Table 1.

Table 1: Stalwart Xtra Lite – Early Preplant Rates of Application (quarts/Acre)

	Single	Split Application*	
Soil Texture	Application	30-45 Days Pre-planting	At Planting
COARSE Sand, loamy sand, sandy loam	2.1	DO NOT APPL	.Y
MEDIUM Loam, silt loam, silt	2.1 - 2.6	1.4 – 1.7	0.7 - 0.9
FINE Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	2.6 - 3.0	1.7 - 2.0	0.9 - 1.0

^{*} Split applications can be made less than 30 days before planting if desired.

For medium textured soils: applications made less than 30 days prior to planting may be as either a split or single treatment. Split applications may also be made by applying 2/3 of the label rate between 45 and 30 days prior to planting and 1/3 of the label rate at planning. Use the lower rate for light expected weed infestations and the higher rate for heavy expected weed infestations. On *coarse-textured soils*, apply 2.1 qts./A not more than 2 weeks prior to planting. The above procedure may be followed if atrazine or metolachlor or simazine is used in tank mixtures with **Stalwart Xtra Lite**. 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, paraquat or glyphosate). Observe directions for use, precautions, and restrictions on the label of the contact herbicide.

On *medium*- and *fine-textured soils* following final seedbed preparation in the Blacklands and Gulf Coast areas of TX, an early preplant application of **Stalwart Xtra Lite** at 1.5 – 1.9 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 metolachlor may be needed in fields with a history of heavy grass pressure. Apply after planting, but before corn and grass weeds emerge.

Notes:

1. If a follow-up application of metolachlor is needed, do not exceed a total of 1.6 lbs. a.i. of metolachlor per acre, including the preplant **Stalwart Xtra Lite** application on *medium*- or *fine-textured soils*. On *fine-textured soils* with more than 3% organic matter, do not exceed 1.6 lbs. a.i. of metolachlor.

[To determine the total lbs. ai. of metolachlor per acre, use the following 2-step method:

- A. Determine the lbs. of metolachlor applied as **Stalwart Xtra Lite** (1 qt. = 0.61 lb. ai. of metolachlor); then,
- B. If metolachlor is to be used, add the lbs. ai. to be applied in these products to the lbs. in Step A above.]
- 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.

PREPLANT SURFACE, PREPLANT INCORPORATED, OR PREEMERGENCE

If you apply this product preplant surface, preplant incorporated, or preemergence, use the appropriate rate from Table 2.

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.

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 2: Stalwart Xtra Lite – Preplant Surface, Preplant Incorporated, or Preemergence Rates of Application

	Broadcast Rate (Quarts Per Acre)		
Soil Texture	Less Than 3% Organic Matter	3% Organic Matter or Greater	
COARSE Sand, loamy sand, sandy loam	1.25	1.5 - 2.1	
MEDIUM Loam, silt loam, silt	1.5 - 2.1	2.1	
FINE Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	2.1	2.1 – 3.0	
DO NOT USE on muck or peat soils (more than 20% organic matter)			

^{*}For cocklebur, yellow nutsedge, and velvetleaf control on fine-textured soils above 3% organic matter: Apply 3.0 qts. of **Stalwart Xtra Lite** per acre.

Notes:

- In the event of escape of annual weeds following an early preplant, preplant surface, preplant incorporated, or preemergence treatment of Stalwart Xtra Lite applied alone or in combination, follow with a post-emergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., atrazine, primisulfuron-methyl, nicosulfuron, dicamba, bentazone, bromoxynil, primisulfuron-methyl + prosulfuron, atrazine + dicamba, or 2,4-D. If the postemergence treatment includes the herbicide used in the earlier treatment, do not exceed the labeled rate for corn on a given soil texture.
- Bromoxynil may be applied postemergence alone or in tank mix combination with atrazine. Do not
 exceed 1.2 lbs. a.i./A of atrazine in tank mix combination with bromoxynil postemergence. Refer to
 the atrazine, and bromoxynil labels for specific rates and precautions.
- If atrazine or another product containing atrazine is used postemergence following application of **Stalwart Xtra Lite**, do not exceed a total of 2.5 lbs. a.i./A of atrazine per year.

POSTEMERGENCE BROADCAST

If you apply this product early postemergence, use the appropriate rate from Table 3. Apply postemergence treatments of **Stalwart Xtra Lite** <u>using water only as the carrier</u>. 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 can result in unsatisfactory control. Occasional corn leaf burn may result, but this should not affect later growth or yield. Do not apply postemergence in fluid fertilizer, or severe crop injury may occur.

RESTRICTION:

DO NOT graze or feed forage from treated areas for 60 days following application.

Table 3: Postemergence Broadcast Rates

Soil Texture	Broadcast Rate (Quarts/ Acre)
COARSE	1.5
Sand, loamy sand, sandy loam	1.5
MEDIUM	21
Loam, silt loam, silt	2.1
FINE	
Sandy clay loam, silty clay loam, clay	2.1 - 2.6*
loam, sandy clay, silty clay, clay	

^{*} For better residual control of cocklebur, velvetleaf, and yellow nutsedge on *fine-textured soils* above 3% organic matter, apply 2.6 qts. of **Stalwart Xtra Lite** per acre.

RESTRICTIONS:

- If no atrazine was applied prior to corn emergence, apply a maximum of 2 lbs ai/A broadcast. If a postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 lbs ai/A per calendar year.
- If atrazine or atrazine plus metolachlor tank mixtures have been applied early preplant, preplant surface, preplant incorporated, or pre-emergence, limit the **Stalwart Xtra Lite** early post application not to exceed a total of 2.5 lbs. of active ingredient in atrazine or 3.75 lbs. of the active ingredient metolachlor per acre per calendar year, or illegal residues may result.

POSTEMERGENCE-DIRECTED

Stalwart Xtra Lite may be applied at 1.25 - 2.6 qts./A in a minimum of 15 gals. of water as a postemergence-directed treatment to corn to extend control of weeds. Apply using the appropriate rate from Table 4.

For best results, apply **Stalwart Xtra Lite** 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 **Stalwart Xtra Lite** application, apply before grass and broadleaf weeds exceed the 2-leaf stage. Application to weeds larger than the 2-leaf stage can 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.

Note: To avoid possible illegal residues, do not graze or feed forage from treated areas for 60 days following application.

Table 4: Postemergence-Directed Rates of Application

Soil Texture	Broadcast Rate qts./Acre
COARSE Sand, loamy sand, sandy loam	1.25
MEDIUM Loam, silt loam, silt	2.1
FINE Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	2.1-2.6*

^{*} For better residual control of cocklebur, velvetleaf, and yellow nutsedge on fine-textured soils above 3% organic matter, apply 2.6 qts. of **Stalwart Xtra Lite** per acre.

Notes: (1) If no atrazine was applied prior to corn emergence, apply a maximum of 2 lbs ai/A broadcast. If a postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 lbs ai/A per calendar year. (2) If atrazine plus metolachlor tank mixtures have been applied preplant surface, preplant incorporated, or preemergence, limit the **Stalwart Xtra Lite** post-directed application not to exceed a total of 2.5 lbs ai/A of the active ingredient atrazine or 3.75 lbs. of the active ingredient metolachlor per acre per calendar year on a corn crop, or illegal residues may result.

STALWART EXTRA LITE COMBINATIONS

Always follow label instructions for tank mix products when mixing with **Stalwart Xtra Lite**.

* When tank mixing **Stalwart Xtra Lite** with atrazine formulations, refer to the **Stalwart Xtra Lite Rate Limitations** section of this label. Do not exceed the following:

On highly erodible land with less than 30% plant residue cover	1.6 lbs. a.i. of atrazine
prior to crop emergence	
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

1. Tank Mixture with Atrazine, Metolachlor, Simazine, or Isoxaflutole – Conventional Tillage When tank mixing or sequentially applying simazine and/or atrazine or products containing either active ingredient to corn, the total pounds of simazine and/or atrazine applied must not exceed 2.0 pounds active ingredient per single application or 2.5 lbs active ingredient/acre per calendar year.

Note: Check the compatibility of **Stalwart Xtra Lite** tank mixtures with isoxaflutole before mixing in spray tank by using the procedure described under **Application in Water or Fluid Fertilizers**.

Atrazine: Add the labeled rate of atrazine to the rate of **Stalwart Xtra Lite** specified 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.

Metolachlor Products: Add the labeled rate of metolachlor to the rate of **Stalwart Xtra Lite** specified in Table 3 when heavy infestations of yellow nutsedge, sandbur, or seedling johnsongrass are expected.

Simazine: Add the labeled rate of simazine to the rate of **Stalwart Xtra Lite** specified in Table 2 where heavy infestations of crabgrass or fall panicum are expected or additional control of certain broadleafs is desired.

Isoxaflutole (Field Corn Only): The tank mixture of Stalwart Xtra Lite + isoxaflutole provides control of weeds listed on the Stalwart Xtra Lite label, certain weed biotypes resistant to ALS-inhibitor herbicides and to triazine herbicides, velvetleaf, and others on the respective product labels. Isoxaflutole 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: Stalwart Xtra Lite – Early Preplant for the early preplant application rate (8-14 days before planting) or refer to Table 2 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 isoxaflutole label, but to reduce the potential for injury from isoxaflutole contact with corn, use the labeled rate of isoxaflutole on coarse-textured soils and the labeled rate on medium- and fine-textured soils in conventional, conservation, and no-tillage systems.

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

2. Stalwart Xtra Lite Alone or in Tank Mixtures of Stalwart Xtra Lite + Atrazine, Isoxaflutole, Metolachlor, or Simazine, with Paraquat, 2,4-D + Glyphosate, or Glyphosate for Minimum-Tillage or No-Tillage Systems

When tank mixing or sequentially applying simazine and/or atrazine or products containing either active ingredient to corn, the total pounds of simazine and/or atrazine applied must not exceed 2.0 pounds active ingredient per single application or 2.5 lbs active ingredient/acre per calendar year. 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 paraquat, 2,4-D + glyphosate, or glyphoste should be tank mixed with **Stalwart Xtra Lite** alone or with **Stalwart Xtra Lite** + atrazine, isoxaflutole, metolachlor, or simazine. When used as directed, the paraquat portion of the tank mixture controls most emerged annual weeds and suppresses many perennial weeds. 2,4-D + glyphosate or glyphosate combinations will control emerged annual and perennial weeds when applied as directed on its label. The **Stalwart Xtra Lite** portion of the tank mixture provides preemergence control of the weeds listed on this label in the **Stalwart Xtra Lite Alone** section for corn. The addition of atrazine, isoxaflutole, metolachlor, or simazine offers the advantage indicated for each under **Tank Mixture with Atrazine, Metolachlor, or Simazine, or Isoxaflutole – Conventional Tillage** section.

Application: Apply before, during, or after planting, but before corn emerges, at the appropriate rate in Table 5. The labeled rate of atrazine, isoxaflutole, or metolachlor per acre may be added to the rate of **Stalwart Xtra Lite** specified in Table 5. Add paraquat, 2,4-D + glyphosate, or glyphosate at labeled rates. Apply in 20-60 gals. of water per acre with conventional spray equipment. **RESTRICTION:** Tank mixtures with isoxaflutole (Balance Flexx) can only be used on field corn.

3. Stalwart Xtra Lite Alone or in Tank Mixtures of Stalwart Xtra Lite + Atrazine, or Isoxaflutole, with 2,4-D or 2,4-D + Dicamba for Minimum-Tillage or No-Tillage Systems

When tank mixing or sequentially applying simazine and/or atrazine or products containing either active ingredient to corn, the total pounds of simazine and/or atrazine applied must not exceed 2.0 pounds active ingredient per single application or 2.5 lbs active ingredient/acre per calendar year.

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, **Stalwart Xtra Lite** may be applied in combination with atrazine or isoxaflutole. When used as directed, the **Stalwart Xtra Lite** portion of the tank mixture provides preemergence control of the weeds listed on this label in the **Stalwart Xtra Lite Alone** section for corn. The addition of atrazine or isoxaflutole offers the advantage indicated for each under **Tank Mixture with Atrazine, Metolachlor, Simazine, or Isoxaflutole – Conventional Tillage** section.

Application: Apply **Stalwart Xtra Lite** before, during, or after planting, but before corn emerges, at the appropriate rate in Table 5. The labeled rate of atrazine or isoxaflutole (refer to **Tank Mixture with Isoxaflutole** for specific rate), per acre may be added to the rate of **Stalwart Xtra Lite** specified in Table 5.

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 indicated for use 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 label rate. Apply before weeds exceed 3 inches in height. If alfalfa is present, add the labeled rate of dicamba to the spray mixture and apply before 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 paraquat at the labeled rate in place of, or in addition to, 2,4-D, as indicated above. Do not apply paraquat in suspension-type liquid fertilizer (using clay suspending agents), as the activity of paraquat will be reduced. Observe all directions for use, precautions, restrictions, and limitations on the respective product labels when applying these products in tank mix combination.

Table 5: Stalwart Xtra Lite for Minimum-Tillage or No-Tillage Corn

Soil Texture	Broadcast Rate qts./Acre			
COARSE Sand, loamy sand, sandy loam	1.5			
MEDIUM Loam, silt loam, silt	2.1			
FINE Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	2.1-3.0 *			
DO NOT USE on muck or peat soils				

^{*}For cocklebur, yellow nutsedge, and velvetleaf control on fine-textured soils above 3% organic matter: Apply 3.0 qts. of **Stalwart Xtra Lite** per acre.

4. 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, **Stalwart Xtra Lite** may be applied preemergence in tank mix combination with the labeled rate of linuron. Apply **Stalwart Xtra Lite** according to the rates in Table 2 and linuron according to the following rates. Follow instructions and precautions on the **Stalwart Xtra Lite** and linuron labels when tank mixing these products.

Rotational Crops: Follow the crop rotation instructions in the **Stalwart Xtra Lite Alone** section for corn.

5. Tank Mixture with Mesotrione

For preemergence control of weeds in corn, **Stalwart Xtra Lite** may be applied in combination with mesotrione. Apply **Stalwart Xtra Lite** according to the rates in Table 2 and mesotrione at the labeled rate. Observe all directions for use, precautions, restrictions, and limitations on the respective product labels when applying these products in tank mix combination.

6. Tank Mixtures For Postemergence Salvage Weed Control in Field Corn Only For postemergence control of weeds in specific types of field corn, the **Stalwart Xtra Lite** combinations listed below may be used. Full season weed control from early preplant, preplant incorporated, or preemergence treatments can lead to maximum yield potential under competition-free conditions. However, if control of emerged weeds is needed, a postemergence program listed below can be applied to provide residual control for the remainder of the season.

Notes:

- Follow all label directions, instructions, precautions, restrictions, and limitations for each product used.
- Do not use fluid fertilizer with these mixtures or corn injury may occur.
- For each tank mixture with Stalwart Xtra Lite, apply only to the specific field corn type specified on the tank mix product label.
- In-row weed control may be reduced because of lack of coverage when applied to corn over 4 inches tall.
- a. Stalwart Xtra Lite + Glufosinate: Postemergence Use in Corn Warranted as Containing a Glufosinate Tolerant Gene Trait The tank mixture of Stalwart Xtra Lite + glufosinate can be applied postemergence to weeds and corn from seed containing a glufosinate tolerant gene trait. Glufosinate provides postemergence control of a broad spectrum of grass and broadleaf weeds and the Stalwart Xtra Lite provides residual control of grasses and broadleaf weeds listed in the label section Stalwart Xtra Lite Applied Alone Weeds Controlled. For the proper rate of Stalwart Xtra Lite applied postemergence, refer to Table 3 and use the minimum rate per soil texture for season-long residual control. Refer to the glufosinate label for the glufosinate 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 glufosinate label rate to control the species and growth stages present. Follow all applicable use directions, limitations, precautions, restrictions, and information regarding application to corn on the Stalwart Xtra Lite and glufosinate labels.

RESTRICTION: DO NOT apply this tank mixture postemergence to any corn variety unless it contains a glufosinate tolerant gene trait.

b. Stalwart Xtra Lite + Glyphosate for Postemergence Application to corn containing a glyphosate tolerant gene trait – The tank mixture of Stalwart Xtra Lite + glyphosate can be applied postemergence to weeds and to corn varieties or cultivars containing a glyphosate tolerant gene trait. Application may be applied postemergence to corn (containing a glyphosate tolerant gene trait) up to 12 inches in height. This mixture will provide postemergence control of weed species on the glyphosate label and also residual control of weed species on the Stalwart Xtra Lite label. Use the minimum Stalwart Xtra Lite rate postemergence with glyphosate in corn containing a glyphosate tolerant gene trait as specified in Table 3 of this label according to soil texture.

Refer to the glyphosate label and follow all appropriate use directions, application procedures, precautions, restrictions, and limitations for control of labeled broadleaf and grass weeds. Where difficult species and/or severe weed populations are expected, use the maximum rate where rate ranges are listed.

RESTRICTION: DO NOT apply this tank mixture postemergence to any corn variety unless it is corn containing a glyphosate tolerant gene trait.

c. Stalwart Xtra Lite + Primisulfuron-methyl: Apply 1.25-1.7 qts./A of Stalwart Xtra Lite + the labeled rate of primisulfuron-methyl to corn that is 4-12 inches tall. The application may be broadcast, semi-directed, or directed. The Stalwart Xtra Lite rate is based on soil texture, with 1.25 qts./A on coarse, and 1.7 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 nicosulfuron.

- d. Stalwart Xtra Lite + Primisulfuron-methyl + Nicosulfuron: Apply the same rates of Stalwart Xtra Lite and primisulfuron-methyl as mentioned above. Add nicosulfuron at the labeled rate 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. The use of fertilizer or crop oil concentrate with this combination may cause injury to corn.
- e. Stalwart Xtra Lite + Primisulfuron-methyl/Prosulfuron Primisulfuron-methyl /prosulfuron herbicide at the labeled rate can be substituted in place of primisulfuron-methyl in the above combinations in field corn only.

Notes: Do not use fertilizer or crop oil concentrate with these mixtures or injury to field corn may occur. The combination of **Stalwart Xtra Lite** 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 with 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 than postemergence treatments.]

Mixing Order

Add these products (Tank Mixtures c, d, and e) to the tank mix in the following order:

- 1. Products in water-soluble bags should be added first.
- 2. Stalwart Xtra Lite.
- 3. Additives.

RESTRICTIONS:

- **DO NOT** exceed the maximum application rate of 3.0 quarts per acre.
- DO NOT exceed one application per year when applied at the high rate (3.0 qts./A)
- DO NOT exceed the maximum yearly application rate of 1.25 gallons of this product,
- **DO NOT** exceed the maximum yearly application rate of 3.75 lbs. metolachlor per acre per year or the maximum yearly application rate of 2.5 lbs. atrazine per acre per year.
- DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours
- If you apply this product early preplant, DO NOT incorporate or disturb the soil before planting.
- For preplant surface, preplant incorporated, or preemergence applications or minimum tillage or no-tillage corn, **DO NOT** use on muck or peat soils (more than 20% organic matter).
- **DO NOT** graze or feed forage from treated areas for 60 days following application.
- DO NOT apply postemergence in fluid fertilizer.

Precautions:

- Follow all label instructions, precautions, and rotational restrictions for individual products when making these applications to field corn. When **Stalwart Xtra Lite** 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.

SORGHUM APPLICATION PROCEDURES

USE ONLY ON SORGHUM SEED TREATED WITH CONCEP® OR SCREEN®

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours

EARLY PREPLANT

If you apply this product early preplant, use the appropriate rate from Table 6.

For minimum-tillage or no-tillage systems only, Stalwart Xtra Lite may be applied up to 45 days before planting in IA, IL, eastern KS, MO, NE, and SD. Use only split applications for treatments made 30 to 45 days prior to planting, with two-thirds of the broadcast rate applied initially and the remaining one-third at planting. Treatments less than 30 days prior to planting may be either as a split or single application. Use the lower rate for light expected weed infestations and the higher rate for heavy expected weed infestations. Under dry conditions, irrigate after application to move this product into the soil.

The above procedure may be followed if atrazine or metolachlor or simazine is used in tank mixtures with **Stalwart Xtra Lite**. 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, paraquat or glyphosate). Observe directions for use, precautions, and restrictions on the label of the contact herbicide.

On *medium*- and *fine-textured soils* following final seedbed preparation in the Blacklands and Gulf Coast areas of TX, an early preplant application of **Stalwart Xtra Lite** at 1.6 – 1.9 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 metolachlor may be needed in fields with a history of heavy grass pressure. Apply after planting, but before sorghum and grass weeds emerge.

Table 6: Stalwart Xtra Lite – Early Preplant Rates of Application (quarts/Acre)

	Organic	Single Split Application¹ (qts./A)		
	Matter	Application	30-45 Days	At
Soil Texture	Content	(qts./A)	Pre-planting	Planting
COARSE Sand, loamy sand, sandy loam	Any level	DO NOT USE		
MEDIUM ²	More than 1.0%	2.1 ^A	1.4 ^A	0.7 ^A
Loam, silt loam, silt	More than 1.0%	2.1 - 2.33 ^B	1.4 - 1.6 ^B	$0.7 - 0.8^{B}$
FINE	More than 1.0%	2.1 ^A	1.4 ^A	0.7 ^A
Sandy clay loam, silty clay	1.0 – 1.5%	2.1 - 2.33 ^B	1.4 - 1.6 ^B	$0.7 - 0.8^{B}$
loam, clay loam, sandy clay, silty clay, clay	More than 1.5%	2.33 - 2.58 ^B	1.6 – 1.75 ^B	$0.8 - 0.9^{B}$

¹ Split applications can be made less than 30 days before planting if desired.

² DO NOT use on medium soil texture when the soil organic matter content is less than 1.0%.

^A Use this rate when applying to 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.

^B Use this rate for all other applications.

RESTRICTIONS:

- 1. **DO** NOT use on sorghum seed that is not properly treated with Concep or Screen seed treatment, this product will severely injure the crop.
- 2. DO NOT use this product on sorghum grown under dry mulch tillage.
- 3. Except for the split preplant surface treatment, DO NOT make more than one application per year, or illegal residues may result.

PRECAUTIONS:

• Under high soil moisture conditions prior to sorghum emergence, injury may occur following the use of this product. The crop will normally outgrow this effect.

Notes:

 If a follow-up application of metolachlor is needed, do not exceed a total of 1.6 lbs. a.i. of metolachlor per acre, including the preplant **Stalwart Xtra Lite** application on *medium*- or *fine-textured soils*. On *fine-textured soils* with more than 3% organic matter, do not exceed 1.6 lbs. a.i. of metolachlor.

[To determine the total lbs. ai. of metolachlor per acre, use the following 2-step method:

- A. Determine the lbs. of metolachlor applied as **Stalwart Xtra Lite** (1 qt. = 0.61 lb. ai. of metolachlor); then,
- B. If metolachlor is to be used, add the lbs. ai. to be applied in these products to the lbs. in Step A above.]
- 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.

PREPLANT SURFACE, PREPLANT INCORPORATED, OR PREEMERGENCE

If you apply this product preplant surface, preplant incorporated, or preemergence, use the appropriate rate from Table 7.

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 6.

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 7: Stalwart Xtra Lite – Preplant Surface, Preplant Incorporated, or Preemergence Rates of Application

Soil Texture	Organic Matter	Broadcast Rate (qts/ A)
COARSE Sand, loamy sand, sandy loam	Any level	DO NOT USE
MEDIUM and FINE	Less than 1.0%	DO NOT USE
Loam, silt loam, silt, sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	More than 1.0%	1.6 – 2.1

Do not use in NM or TX, except in the TX panhandle, Gulf Coast, and Blacklands area. Do not apply preplant incorporate 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, apply in a tank mixture combination with a contact herbicide (for example, paraquat or glyphosate). Observe directions for use, precautions, and restrictions on the label of the contact herbicide.

RESTRICTIONS:

 To avoid possible illegal residues, do not graze or feed sorghum forage for 60 days following preemergent use.

RESTRICTIONS:

- **DO NOT** exceed the maximum yearly application rate of 1.25 gallons of this product,
- **DO NOT** exceed the maximum yearly application rate of 3.75 lbs. metolachlor per acre per year or the maximum yearly application rate of 2.5 lbs. atrazine per acre per year.
- Except for the split preplant surface treatment, **DO NOT** make more than one application per year.
- **DO NOT** use on sorghum seed that is not properly treated with Concep or Screen seed treatment, this product will severely injure the crop.
- **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours
- If you apply this product early preplant, DO NOT incorporate or disturb the soil before planting.
- **DO NOT** use this product on sorghum grown under dry mulch tillage.
- For preplant surface, preplant incorporated, or preemergence applications, DO NOT use in NM or TX, except in the TX panhandle, Gulf Coast, and Blacklands area. DO NOT apply preplant incorporate in AZ or the Imperial Valley of CA.
- **DO NOT** apply this product when sorghum is planted in deep furrows because heavy rains following application can cause excessive concentrations of herbicide in the furrow.
- Postemergence applications to sorghum must be made before the crop reaches 12 inches in height.
- **DO NOT** graze or feed sorghum forage for 60 days following preemergent use.
- In the event of escape of annual weeds following an early preplant, preplant surface, preplant incorporated, or preemergence treatment of **Stalwart Xtra Lite** applied alone or in combination, follow with a post-emergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., atrazine, glyphosate, or 2,4-D+glyphosate. If the postemergence treatment includes the herbicide used in the earlier treatment, do not exceed the labeled rate for sorghum on a given soil texture.
- If atrazine or another product containing atrazine is used postemergence following application of **Stalwart Xtra Lite**, **DO NOT** exceed a total of 2.5 lbs. a.i./A of atrazine per year.
- **DO NOT** apply this product on highly alkaline soils (pH greater than 8.0) or on eroded areas where calcareous subsoils are exposed.

PRECAUTIONS:

- Under high soil moisture conditions prior to sorghum emergence, injury may occur following the use of this product. The crop will normally outgrow this effect.
- Injury may occur if both this product (applied early preplant, preplant surface, preplant incorporated, or preemergence) and an at-planting systemic insecticide applied in-furrow are used.
- Sorghum growing under stress caused by minor element deficiency may be injured by this product.

STALWART XTRA LITE COMBINATIONS

Always follow label instructions for tank mix products when mixing with **Stalwart Xtra Lite**.

When tank mixing **Stalwart Xtra Lite** with atrazine formulations, refer to the **Stalwart Xtra Lite Rate Limitations** section of this label. Do not exceed the labeled rate for atrazine.

Tank Mixture of STALWART XTRA LITE with Atrazine, Metolachlor – Conventional Tillage

- Atrazine: Add the labeled rate of atrazine the rate of Stalwart Xtra Lite specified 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.
- 2. **Metolachlor Products:** Add the labeled rate of metolachlor to the rate of **Stalwart Xtra Lite** specified in Table 3 when heavy infestations of yellow nutsedge, sandbur, or seedling johnsongrass are expected.

Stalwart Xtra Lite Alone or Tank Mixture of Stalwart Xtra Lite + atrazine, metolachlor, or with paraquat, glyphosate, or 2,4-D + glyphosate – Minimum-Tillage or No-Tillage Systems

When tank mixing or sequentially applying atrazine to sorghum, the total pounds of atrazine applied must not exceed 2.0 pounds active ingredient per single application or 2.5 lbs active ingredient/acre per calendar year.

In minimum-tillage or no-tillage systems where sorghum is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides paraquat, 2,4-D + glyphosate, or glyphosate should be tank mixed with **Stalwart Xtra Lite**. When used as directed, the paraquat portion of the tank mixture controls most emerged annual weeds and suppresses many perennial weeds. 2,4-D+glyphosate or glyphosate combinations will control emerged annual and perennial weeds when applied as directed on its label. The **Stalwart Xtra Lite** portion of the tank mixture provides preemergence control of the weeds listed on this label in the **Stalwart Xtra Lite Alone** section for sorghum.

Application: Apply **Stalwart Xtra Lite** before, during, or after planting, but before sorghum emerges, at the appropriate rate in Table 8. Add tank mix partners at labeled rates. Refer to the labels for all tank mix partners and follow all use directions, precautions, restrictions, and limitations.

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

Table 8: Stalwart Xtra Lite for Minimum-Tillage or No-Tillage Sorghum (Seed treated with Concep® or Screen®)

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	Organic Matter	Broadcast Rate (qts/ A)			
Soil Texture					
COARSE	Any level	DO NOT USE			
Sand, loamy sand, sandy loam	Ally level				
	Less than 1.0%	DO NOT USE			
MEDIUM and FINE Loam, silt loam, silt, sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	1.0 – 1.5%	1.6			
	More than 1.5%	1.8 – 2.1			

Do not use in NM or TX, except in the TX panhandle, Gulf Coast, and Blacklands area. Do not apply preplant incorporate in AZ or the Imperial Valley of CA.

PRECAUTIONS:

To avoid possible crop injury,

- 1. Do not apply **Stalwart Xtra Lite** on highly alkaline soils (pH greater than 8.0) or on eroded areas where calcareous subsoils are exposed.
- 2. Do not apply **Stalwart Xtra Lite** when sorghum is planted in deep furrows because heavy rains following application can cause excessive concentrations of herbicide in the furrow.
- 3. Do not apply to sorghum grown under dry mulch tillage.
- **4.** Injury may occur if both **Stalwart Xtra Lite** applied early preplant, preplant surface, preplant incorporated, or preemergencee and an at-planting systemic insecticide applied in-furrow are used.
- 5. In addition, sorghum growing under stress caused by minor element deficiency may be injured by **Stalwart Xtra Lite**.
- **6.** Postemergence applications to sorghum must be made before the crop reaches 12 inches in height.

Rotational Crops: Follow the crop rotation instructions on this label.

STORAGE AND DISPOSAL

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

Storage: This product may be stored at temperatures down to -30°F. 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. **Pesticide Disposal:** Wastes resulting from the use of this product are toxic. Open dumping is prohibited. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate 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 Handling: [Containers < 5 Gallons:]

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, by incineration.

Minibulk Containers: [Containers >5 Gallons:] Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follow: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto it other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, by incineration.

Bulk Containers: [Containers >5 Gallons:] Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into

application equipment or rinsate collection system. Repeat this rinsing procedure two more times. When the container is empty, replace the cap and seal all openings that have been opened during use; and return to the point of purchase, or to a designated location named at the time of purchase of this product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged or leaking, call Chem-Trec. If the container is damaged and leaking or material has been spilled, follow these procedures:

- Cover spill with absorbent material.
- Sweep into disposal container.
- Wash area with detergent and water and follow with clean water rinse.
- Do not allow to contaminate water supplies.
- Dispose of according to instructions.

If not returned to the point of purchase or to a designated location, clean empty container as instructed above and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

WARRANTY AND LIMITATION OF DAMAGES

Conditions of Sale: To the extent consistent with applicable law, Sipcam Agro USA, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to Sipcam Agro USA, Inc. Sipcam Agro USA, Inc. disclaims all other warranties, express or implied. To the extent consistent with applicable law, Sipcam Agro USA, Inc. shall not be liable for consequential, special, or indirect damages resulting from the use or handling of this product, and Sipcam Agro USA, Inc.'s sole liability and buyer's and user's exclusive remedy shall be limited to the refund of the purchase price. Buyer and user acknowledge and assume all risks and liability resulting from handling, storage and use of this product. Sipcam Agro USA, Inc. does not authorize any agent or representative to make any other warranty, guarantee or representation concerning this product.

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