



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

November 10, 2021

Patricia McFadden  
Registration Manager, Agent for Sipcam Oxon, S.p.A.  
Sipcam Oxon S.p.A.  
c/o Sipcam Agro USA, Inc.  
2525 Meridian Parkway  
Durham, NC 27713

Subject: Registration Review Label Amendments for Atrazine Incorporating Mitigation Measures from the Interim Decision and the Technical Registrants' Commitments for the Endangered Species Act (ESA) Biological Evaluation  
*Product Name:* ATRAZINE 4L HERBICIDE  
*EPA Registration Number:* 35915-4  
*Application Date:* November 20, 2020  
*Decision Number:* 568088

Dear Ms. McFadden:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Atrazine Interim Decision and with the technical registrants' commitments for the ESA Biological Evaluation. The Agency has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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.

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

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EPA Reg. No. 35915-4  
Decision No. 568088

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.

If you have any questions about this letter, please contact Natalie Bray at [bray.natalie@epa.gov](mailto:bray.natalie@epa.gov).

Sincerely,



Kelly Sherman  
Chief, Risk Management and Implementation  
Branch III (RMIB III)  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs  
U.S. Environmental Protection Agency

Enclosure

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

Atrazine	Group	<b>5</b>	Herbicide
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## ATRAZINE 4L HERBICIDE

**[For Season-Long Weed Control in Corn and Sorghum]  
[For Weed Control in [Corn] [Sorghum] [Sorghum Sudan Hybrids] [Grain Sorghum] [Winter weeds] [Chemical fallow] [Sugarcane] [Turfgrasses] [Macadamia nuts] [Guava]]**

**ACCEPTED**  
11/10/2021

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 35915-4

<b>ACTIVE INGREDIENT:</b>	
Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine).....	41.9%
Related compounds.....	1.1%
<b>OTHER INGREDIENTS:</b> .....	57.0%
<b>TOTAL</b> .....	100.0%

This product contains 4 lbs. of atrazine per gallon.

### KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>Note to Physician:</b> There is no specific antidote for atrazine. If this product is ingested, induce emesis or lavage stomach. Have the product container or label with you when calling a poison control center or doctor, or when going for treatment.	
<b>Emergency phone numbers</b>	(800) 222-1222 Poison Control Center (human health) (800) 424-9300 CHEMTREC (transportation and spills)

Shake well before using.  
See additional Precautionary Statements and Directions for Use inside booklet.  
Read entire label carefully before [opening the container] [using this product].

EPA Registration No. 35915-4  
[label date code or lot number]

EPA Establishment No. \_\_\_\_\_  
[Lot number begins with xxx]

NET CONTENTS: \_\_\_\_\_ [gallons] [gals.] [g] [(\_\_\_\_ liters)]

**SIPCAM OXON S.p.A.**  
Via Sempione, 195 20016  
Pero, Milan, Italy

**[Manufactured for:] [Distributed by:]**

Sipcam Agro USA, Inc.  
2525 Meridian Parkway  
Durham, NC 27713]

**OPTIONAL LANGUAGE FOR LABEL**

[Pull back book here] [Pull back label here]

[See additional Precautionary Statements and Directions for Use inside [the] book[let].]

[Formulated in the United States of America, with U.S. and imported ingredients.]

[Product of \_\_\_\_\_] [Note: if manufactured in a country other than U.S., country name will appear here]

[Herbicide]

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION.** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Harmful or fatal if swallowed. Avoid breathing spray mist.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators using spray equipment mounted on their backs must wear:

- Coveralls over long-sleeved shirt and long pants,
- Chemical-resistant footwear plus socks, and
- Waterproof gloves.

Mixers, loaders, all other applicators, flaggers, and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, and chemical-resistant apron, when mixing/loading, cleaning up spills, cleaning equipment, or otherwise exposed to the concentrate. See engineering controls for additional requirements.

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

**ENGINEERING CONTROLS**

Mixers and loaders supporting aerial applications at a rate greater than 3 lbs./A must use a closed system that meets the requirements for dermal protection listed in the Worker Protection Standard (WPS) for Agricultural Pesticides [40 CFR 170.240(d)(4)] and must:

- wear the personal protective equipment (PPE) required for mixers and loaders,
- wear protective eyewear if the system operates under pressure, and
- be provided and have immediately available for use in an emergency, such as a spill or

equipment breakdown: chemical resistant footwear.

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40 CFR 170.240(d)(6)]. Pilots must wear the PPE required on this labeling for applicators, however, they need not wear waterproof 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

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 thoroughly after handling and 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 is toxic to aquatic invertebrates. **DO NOT** apply directly to water, to areas where water is present or to intertidal areas below the mean high-water mark. **DO NOT** apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

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.

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

Product must not be mixed or loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of

the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide to the mixing/ loading sites.

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

An in-field downwind buffer of 15 feet (4.6 meters) for ground applications and 150 feet (46 meters) for aerial applications is required:

- from the edge of all streams and rivers as well as the high-tide line for all estuarine/marine environments, and
- from threatened and endangered species critical habitat and/or species locations.

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

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

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

#### **NON-TARGET ORGANISM ADVISORY STATEMENT**

This product is toxic to plant and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

### **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](http://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 Oxon S.p.A. [Sipcam Agro USA, Inc.] for a refund.

#### **RESTRICTIONS**

- **NOT** for use in the states of Hawaii or Alaska or in the U.S. territories (Puerto Rico, Guam, American Samoa, the U.S. Virgin Islands, and the North Mariana Islands)
- Use on roadsides; Conservation Reserve Program (CRP) land; conifers, including Christmas Tree plantings; timber; forestry; and Miscanthus and other perennial bioenergy crops is **prohibited**.
- **DO NOT** apply atrazine and propazine products to the same sorghum acre.

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

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.** Exception: if the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, shoes plus socks, and waterproof gloves.

#### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, and greenhouses.

**DO NOT enter or allow others to enter until sprays have dried.**

#### **MANDATORY SPRAY DRIFT MANAGEMENT**

##### **Aerial Applications:**

- **DO NOT** release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a coarse or coarser droplet size (ASABE S572).
- If the windspeed is 10 miles per hour or less, applicators must use ½ swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use ¾ swath displacement upwind at the downwind edge of the field.
- User must maintain a 150 foot (46 meter) in-field downwind buffer (in the direction in which the wind is blowing) from the edge of streams and rivers, as well as high-tide line for all estuarine/marine environments.
- **DO NOT** apply when wind speeds exceed 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters
- **DO NOT** apply during temperature inversions.



### **Ground Boom Applications:**

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- User must maintain a 15 foot (4.6 meter) in-field downwind buffer (in the direction in which the wind is blowing) from the edge of streams and rivers, as well as high-tide line for all estuarine/marine environments.
- Applicators are required to use a coarse or coarser droplet size (ASABE S572).
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

### **Boomless Ground Applications:**

- Applicators are required to use a coarse or coarser droplet size (ASABE S572) for all applications.
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- User must maintain a 15 foot (4.6 meter) in-field downwind buffer (in the direction in which the wind is blowing) from the edge of streams and rivers, as well as high-tide line for all estuarine/marine environments.
- **DO NOT** apply during temperature inversions.

## **SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.  
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### **Boomless Ground Applications**

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

### **Handheld Technology Applications**

- Take precautions to minimize spray drift.

### **IMPORTANCE OF DROPLET SIZE**

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

### **Controlling Droplet Size - Ground Boom**

- Volume – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure – Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle – Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

### **Controlling Droplet Size – Aircraft**

- Adjust Nozzles - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

### **BOOM HEIGHT – Ground Boom**

- For ground equipment, the boom should remain level with the crop and have minimal bounce.



### **RELEASE HEIGHT - Aircraft**

- Higher release heights increase the potential for spray drift.

### **SHIELDED SPRAYERS**

- Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

### **TEMPERATURE AND HUMIDITY**

- When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or 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.

### **WIND**

- Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.
- Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

### **ENDANGERED SPECIES**

It is a Federal offense to use any pesticide in a manner that results in an unauthorized “take” (e.g., kill or otherwise harm) of an endangered species under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.

### **SENSITIVE AREAS**

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

### **WEED RESISTANCE MANAGEMENT**

For resistance management, this product is a Group 5 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 5 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. 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 5 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 resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact your local [Sipcam Oxon] [Sipcam Agro] [company] representative.

### PRODUCT INFORMATION

This herbicide controls many annual broadleaf and grass weeds in corn, sorghum, sugarcane, and certain other crops specified on this label. It is also effective in industrial sites for control of most annual and many perennial broadleaf and grass weeds. This product may be applied before or after weeds emerge.

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

Since this product acts mainly through root absorption its effectiveness depends on moisture to move it into the root zone. If weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control.

This product is nonflammable.

Avoid using near adjacent desirable plants or in greenhouses, or injury may occur.

To avoid spray drift, **DO NOT** apply under windy conditions. Avoid spray overlap as crop injury may result.

Where the use directions gives a range of rates, use the lower rate on coarse-textured soil and soil low in organic matter; use the higher rate on fine-textured soil and soil high in organic matter.

**NOTE:** [Sipcam Oxon S.p.A.] [Sipcam Agro USA, Inc.] does not recommend applications in combination with other herbicides or oils, except as specifically described on this label.

## APPLICATION PROCEDURES

**CHEMIGATION PROHIBITION: DO NOT** apply this product through any type of irrigation system.

**GROUND APPLICATION:** Use conventional ground sprayers equipped with nozzles that provide accurate and uniform application. Be certain that nozzles are uniformly spaced and are the same size. Calibrate sprayer before use and recalibrate at the start of each season and when changing carriers. Unless otherwise specified, use a minimum of 10 gallons of spray mixture/A for all preplant incorporated, preplant surface, preemergence, and postemergence applications (with or without oil or surfactant) with ground equipment.

Use a pump with capacity to (1) maintain 35 – 40 psi at nozzles, (2) provide sufficient agitation in tank to keep mixture in suspension, and (3) to provide a minimum of 20% bypass at all times. Use centrifugal pumps which provide propeller shear action for dispersing and mixing this product. The pump should provide a minimum of 10 gallons/minute/100 gallon tank size circulated through a correctly positioned sparger tube or jets.

Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on the suction side of the pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles. Check nozzle manufacturer's specifications.

**AERIAL APPLICATION:** Use aerial application only where broadcast applications are specified. Apply in a minimum of 1 qt. of water for each quart of this product applied per acre. For postemergence treatments on corn and sorghum, apply rate in a minimum of 2 gals. of water per acre. **DO NOT** apply under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

**DO NOT** apply to humans or animals. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

### **APPLICATION IN WATER PLUS EMULSIFIABLE OIL OR OIL CONCENTRATE:**

Adding emulsifiable oil (petroleum-derived, or single or mixed crop-derived oil concentrate) to postemergence water-based sprays in corn and sorghum may improve weed control. However, under certain conditions the use of either type of oil may seriously injure the crop. To minimize this possibility, use a suitable crop oil concentrate containing at least 1% but not more than 20% suitable emulsifier or surfactant blend, or use a petroleum-derived oil containing at least 1% suitable emulsifier.

Note: In the event of a compatibility problem when mixing oil with this product and water, a compatibility agent should be used. When an adjuvant is to be used with this product, use Compex<sup>®</sup>, Unite<sup>®</sup> or a Council of Producers and Distributors of Agrotechnology (CPDA) certified adjuvant. Any of the above oils contaminated with water or other materials can cause compatibility problems and/or crop injury.

### **APPLICATION IN WATER OR LIQUID FERTILIZER:**

Fertilizer solution or fluid fertilizer may replace all or part of the water as a carrier for preemergence, preplant incorporated, or preplant surface ground application on corn and sorghum. Check the

compatibility of this product with fluid fertilizer and or fertilizer solution as shown below before use. Do not apply in nitrogen solution or complete liquid fertilizer after corn or sorghum emerges or crop injury may occur.

**FOR BAND APPLICATIONS, CALCULATE AMOUNT TO BE APPLIED PER ACRE AS FOLLOWS:**

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast rate per acre} = \text{Amount needed per acre of field}$$

**Mixing procedures – All Uses:** (1) Be sure sprayer is clean and not contaminated with any other materials, otherwise crop injury or sprayer clogging may result; (2) Fill tank  $\frac{1}{4}$  full with liquid spray carrier (clean water, nitrogen solution, or complete liquid fertilizer); (3) Start agitation, then be certain that agitation is working sufficiently to create a rippling or rolling action on the water surface; (4) Transfer directly into the tank the proper amount of this product according to the area to be treated; (5) Continue filling the tank with liquid spray carrier until 90% full. Increase agitation as tank fills if necessary to maintain efficient mixing of tank contents; (6) If using emulsifiable oil, oil concentrate, or other pesticides after this product is thoroughly suspended; (7) Finish filling the tank; (8) When applying to the area to be treated, maintain agitation to avoid separation of tank contents, and empty tank as completely as possible before re-filling in order to prevent buildup of oil or emulsifiable concentrate residue; (9) If an oil or emulsifiable concentrate film starts to build up in the tank, drain it and clean with strong detergent solution or solvent; (10) Clean sprayer thoroughly immediately after use by flushing system with water containing a detergent.

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

**COMPATIBILITY TEST:** Since liquid fertilizers can vary, even within the same analysis, always check compatibility with herbicide(s) each time before use. Be especially careful when using complete suspension or fluid fertilizers, as serious compatibility problems are more likely to occur. Commercial application equipment may improve compatibility in some instances. The following test assumes a spray volume of 25 gallons per acre. For other spray volumes, make appropriate changes in the amounts of ingredients. Check compatibility using this procedure:

1. Add 1 pint of liquid carrier (water, fertilizer suspension or solution) to each of two (2) one-quart jars with tight lids.
2. To **one** of the jars add  $\frac{1}{4}$  teaspoon (1.2 milliliters) of a compatibility agent approved for this use, such as Compex<sup>®</sup> or Unite<sup>®</sup> ( $\frac{1}{4}$  teaspoon in one quart of compatibility test mixture is equivalent to approximately 2 pints per 100 gallons of spray mixture). Shake or stir gently to mix.
3. To **both** jars add the appropriate amount of herbicide(s) intended to be tank mixed. If more than one type of formulation is to be used, first add dry product(s), then flowables or liquid suspension concentrates, and emulsifiable concentrates last. After each addition, shake or stir the mixture gently to thoroughly mix. The appropriate amount of each pesticide to be used for this test is as follows:

**Dry products:** For each pound to be applied per acre, add approximately 1.5 level teaspoons to each jar.

**Liquid products:** For each pint to be applied per acre, add 0.5 teaspoons (2.5 milliliters) to each jar.

4. After adding all ingredients, put lids on and tighten, then invert each jar ten times to mix. Let the mixtures stand 15 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film in the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the contents of the two 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 ½ of the compatibility agent to the fertilizer and the other ½ to the emulsifiable concentrate or flowable pesticide before addition to the mixture. If non-compatibility is still observed, do not use the mixture.

### **TANK MIXING**

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.

**DO NOT** exceed label dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing.

**DO NOT** combine this product in sprayer tank with pesticides, surfactants or fertilizers, unless your prior use has shown the combination physically compatible, effective and noninjurious under your conditions of use.

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

When tank-mixing or sequentially applying atrazine or products containing atrazine to crops other than corn or sorghum, the total pounds of atrazine applied (lbs.AI/A) must not exceed the specific annual rate limits as noted in the use directions.

### **ROTATIONAL CROPS – ALL USES:**

- (1) Do not rotate to any crop except corn or sorghum until the following year, or injury may occur.
- (2) If applied after June 10, do not rotate with crops other than corn or sorghum the next year or crop injury may occur.
- (3) In the High Plains and Intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use only when corn or sorghum is to follow corn or sorghum or when a crop of untreated corn or sorghum is to precede other rotational crops.
- (4) In eastern parts of the Dakotas, KS, western MN, and NE, do not rotate to soybeans if the rate applied to corn or sorghum was more than 4 pts./A or equivalent band application rate, or soybean injury may occur.
- (5) Injury may occur to soybeans planted the year following application on soils having a calcareous surface layer.
- (6) Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small-seeded legumes and grasses the year following application, or injury may occur.

## **CROPS**

### **ATRAZINE 4L APPLIED ALONE - CORN OR GRAIN SORGHUM\***

- The maximum application rate of corn and sorghum is 2.5 lbs.AI (5 pints Atrazine 4L) per acre per calendar year.
- Application for quackgrass suppression in corn and sorghum are restricted to a spring application only.
- No fall applications are permitted.
- Postemergence application to corn and sorghum must be made before corn and sorghum

reaches 12 inches in height.

**Preplant Surface-Applied, Preplant Incorporated, or Preemergence  
(or Postemergence at 4 pints/A of Atrazine 4L with Oil)**

**Broadleaf and Grass Weeds Controlled**

barnyard grass*** (watergrass)	cocklebur	nightshade
giant foxtail**	groundcherry	pigweed
green foxtail***	jimsonweed	purslane
large (hairy) crabgrass**	kochia	ragweed
wild oats	annual morning glory	sicklepod**
witchgrass ( <i>Panicum capillare</i> )***	mustards	velvetleaf (buttonweed)***
lambsquarters	yellow foxtail***	

**Postemergence with Emulsifiable Oil or Oil Concentrate in Water  
(2 pints emulsifiable oil or oil concentrate + 2.4 pints/Acre of Atrazine 4L)**

**Broadleaf Weeds Controlled**

annual morning glory	lambsquarters	ragweed
Cocklebur	mustards	smartweed
Jimsonweed	pigweed	wild buckwheat
		velvetleaf (buttonweed)***

\*Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or higher set-backs) which are different from the label, the more restrictive/protective requirements apply. 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.

\*\*Partial control only

\*\*\*Partial control only on medium and fine-textured soils.

## CORN

### USE RESTRICTIONS – ALL APPLICATIONS TO CORN:

- **Maximum single use rate:** 5 pints of this product per acre (2.5 lbs. AI/acre),
- **Maximum annual use rate:** 5 pints of this product per acre per year (2.5 lbs. AI/acre),
- **Maximum number of applications per year:** 1 at the high rate
- **Minimum retreatment interval:** NA
- **Pre-harvest interval (PHI):** Field corn forage: 60 days; Sweet corn forage: 45 days
- For sweet corn, applications made by mechanically pressurized handguns are prohibited.

### USE PRECAUTIONS – ALL APPLICATIONS TO CORN:

- For best control of velvetleaf and cocklebur, the application rate cannot be less than 2 lbs.AI/A, either alone or in tank mix combinations.
- Following harvest, plow (moldboard or disk-plow) and thoroughly till soil in fall or spring to minimize possible injury to spring-seeded rotational crops, regardless of rate used.

**PREPLANT SURFACE-APPLIED (Broadleaf and Grass Control):** Use on medium and fine-textured soil with minimum-tillage or no-tillage systems only in CO, IL, IN, IA, KS, KY, MN, MO, MT, NE, ND, SD, WI, and WY. Apply the rate of Atrazine 4L shown in Table 1 up to 45 days prior to planting. **On coarse-textured soils**, do not apply more than two weeks prior to planting. If an unsatisfactory length of weed control results from adverse environmental conditions following early treatment, a follow-up



application of an appropriately labeled herbicide may be used. If the follow-up treatment includes atrazine, do not exceed the labeled rate for corn indicated in Table 1.

If weeds are present at the time of treatment, apply in 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. **Note:** 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 INCORPORATED (Broadleaf and Grass Control):** Broadcast in spring after plowing at rate in Table 1. Apply to the soil and incorporate before, during, or after final seedbed preparation. Avoid deep incorporation. For best results, apply within two weeks prior to planting.

**PREEMERGENCE OR AT-PLANTING (Broadleaf and Grass Control):** Apply during or shortly after planting before weed emergence at rate in Table 1.

**POSTEMERGENCE (Broadleaf and Grass Control):** Apply before weeds exceed 1.5 inches in height, and before corn exceeds 12 inches in height at rate in Table 1.

**TABLE 1: Broadleaf and Grass Weed Control on Corn\***

**FOR ALL SOIL APPLICATIONS PRIOR TO CROP EMERGENCE** maximum broadcast application rates for corn must be as follows:

- **ON HIGHLY ERODIBLE SOILS (as defined by NRCS):**

If conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at planting, apply a maximum of 2 lbs./A (4 pints/A of Atrazine 4L) as a single preemergence application.

If the soil coverage with plant residue is less than 30% at planting, a maximum of 1.6 lbs./A (3.2 pints/A of Atrazine 4L) as a single preemergence application; or 2.0 lbs./A of this product if only applied postemergence.

- **ON SOILS NOT HIGHLY ERODIBLE:** Apply a maximum of 2 lbs./A (4 pints/A of Atrazine 4L) as a single preemergence application.

**FOR POSTEMERGENCE APPLICATION**

If no atrazine was applied prior to corn emergence, apply a maximum of 2 lbs./A (4 pints/A of Atrazine 4L) broadcast. If a postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 lbs./A (5 pints of Atrazine 4L) per calendar year.

**\*Broadleaf control (eastern CO, western KS, western NE, NM, OK Pan Handle, west Texas, and eastern WY):** On sand, loamy sand, sandy loam, mild to strongly alkaline soil, and all recently leveled soil, apply no more than 2.4 pints/A of Atrazine 4L, either preplant surface, preplant incorporated, or preemergence. On other soils in these areas, apply rate in Table 1 for broadleaf and grass control.

Where there are state/local requirements regarding Atrazine use (including lower maximum rates and/or higher set-backs) which are different from the label, the more restrictive/protective requirements apply. Certain states may have established rate limitation 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.

**POSTEMERGENCE WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER:** Add the following volume of one of the type oils indicated for aerial or ground application unless the oil label



specifies otherwise:

Type Oil	Ground Application	Aerial Application
Oil Concentrate (Crop or Petroleum-derived)	1 qt./A	½ – 1 qt./A
Petroleum-derived oil	1 gal./A	2 qt./A

**NOTE:** Crop-derived or petroleum-derived oil concentrates should contain at least 1%, but not more than 20%, suitable emulsifier or surfactant blend. Petroleum-derived oils should contain at least 1% suitable emulsifier.

**BROADLEAF AND GRASS CONTROL:** For postemergence control of those weeds listed under **Preplant Incorporated and Preemergence**, broadcast 4 pints/A of Atrazine 4L plus emulsifiable oil or oil concentrate after weed emergence, but before weeds reach 1.5 inches in height and before corn exceeds 12 inches in height.

**BROADLEAF CONTROL:** For postemergence control of those weeds listed under **Post-emergence with emulsifiable oil or oil concentrate in water**, broadcast 2.4 pints/A of Atrazine 4L plus emulsifiable oil or oil concentrate before pigweed and lambsquarters reach 6 inches in height and before all other weeds reach 4 inches in height. A cultivation may be necessary if all weeds are not controlled or if weeds regrow.

#### USE RESTRICTIONS

##### APPLICATIONS WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER:

1. Do not exceed 2.5 lbs. active ingredient (5 pints of this product) per acre per calendar year. Follow all use restrictions listed at the beginning of this section.
2. Postemergence applications to corn must be made before crop reaches 12 inches in height.

#### USE PRECAUTIONS

##### APPLICATIONS WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER:

1. Inbred lines or any breeding stock may be severely injured by applications with emulsifiable oil or oil concentrate.
2. Adding other insecticides, herbicides, liquid fertilizers, or other materials may cause compatibility problems or crop injury.
3. Store and handle emulsifiable oil and oil concentrate carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank.
4. To avoid crop injury, do not apply when crop is under stress from prolonged cold, wet weather, poor fertility, or other factors, or when crop is wet and succulent from recent rainfall.

#### TANK MIXTURES FOR CORN

This product may be tank mixed with products containing the following herbicides for control of certain broadleaf and grass weeds in corn.

Metolachlor*	Metolachlor + Simazine + Paraquat	Simazine + Paraquat
Metolachlor + Paraquat	Metolachlor + Simazine + Glyphosate	Simazine + Glyphosate
Metolachlor + Glyphosate	Paraquat	Glyphosate
Metolachlor + Simazine	Simazine	

\*includes metolachlor and s-metolachlor

Use tank mix directions appearing on the labels of the above herbicides when tank mixing with this product. Observe all precautions and limitations on labeling of products used in a particular tank mix.

**SIMAZINE:** In addition to the weeds listed under **Atrazine 4L Applied Alone – Corn and Grain**

**Sorghum – Preplant Surface Applied, Preplant Incorporated, or Preemergence**, this combination also controls crabgrass, fall panicum, and carpetweed.

Broadcast tank mix before planting, at planting, or after planting, but before crop and weeds emerge, at rates in Table 2. Cultivate shallowly if weeds develop.

**PREPLANT SURFACE-APPLIED:** Use on medium- and fine-textured soils with minimum-tillage or no-tillage systems only in CO, IL, IN, IA, KS, KY, MN, MO, MT, NE, ND, SD, WI, and WY. Apply the rate of Atrazine 4L and simazine shown in Table 2 up to 45 days prior to planting. Refer to the Atrazine 4L alone section for information if weeds should develop following the early treatment. On coarse-textured soils, do not apply more than two weeks prior to planting. Refer to the **Atrazine 4L Alone – Preplant Surface Applied** section of the corn label for additional details.

If weeds are present at time of treatment, apply in a tank mix combination with a contact herbicide (for example, paraquat or glyphosate). Observe directions for use, precautions, and restrictions on the label of the contact herbicide.

**NOTE:** 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 INCORPORATED:** Apply to the soil and incorporate in the spring before, during or after final seedbed preparation. Avoid deep incorporation. For best results, apply within two weeks prior to planting.

**PREEMERGENCE:** Apply during or shortly after planting, but before crop and weeds emerge.

Refer to **Corn** sections of this label and to Simazine labels for further directions, limitations, and precautions.

**TABLE 2: Tank Mixtures Atrazine 4L with Simazine on Corn<sup>1</sup>**

Soil Texture	Atrazine 4L Broadcast Rate/Acre
Sand, loamy sand, sandy loam	2 pints (1 lb.AI/A) plus the label rate of simazine
Loam, silt loam, silty clay loam, sandy clay loam, silty clay loam, sandy clay, or silty clay with low organic matter	2.4 pints (1.2 lb.AI/A) plus the label rate of simazine
Loam, silt loam, silt, clay loam, sandy clay loam, silty clay loam, sandy clay, or silty clay with medium to high organic matter, and clay (including dark prairie soils of the corn belt)	3 pints (1.5 lb.AI/A) plus the label rate of simazine

**ATRIAZINE PLUS SIMAZINE PLUS GLYPHOSATE:** Use as tank mixture for preemergence and postemergence control of certain broadleaf and grass weeds where corn will be planted directly into a cover crop, established sod, or in previous crop residues. Refer to glyphosate label for all directions, weeds controlled, precautions, and limitations.

**ATRIAZINE PLUS SIMAZINE PLUS PARAQUAT:** Use as tank mixture with simazine and paraquat to kill existing vegetation and for residual weed control where corn will be planted directly into a cover

crop, established sod, or in previous crop residues. Add this product and simazine to water in spray tank, agitating until thoroughly mixed. Then add paraquat and a nonionic surfactant, such as X-77®. Continue agitation during application. Broadcast 1-2 lbs.AI/A (2-4 pints) of this product, plus the label rate of simazine, plus the label rate of paraquat in 20-60 gallons of water per sprayed acre. Refer to the simazine and paraquat labels for the appropriate rates to utilize in this tank mixture. Apply before, during or after planting, but before corn emerges. Add 0.5 pint of a nonionic surfactant, such as X-77®, per 100 gallons of spray mixture. Use the higher rate of paraquat if existing vegetation is 4-6 inches tall. This mixture will not control weeds taller than 6 inches.

Refer to further limitations and precautions on labels for this product, simazine and paraquat products. Follow the most restrictive appropriate restrictions, precaution, or use directions on the most restrictive label.

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## SORGHUM AND SORGHUM-SUDAN HYBRIDS (GRAIN AND FORAGE TYPES)

### USE RESTRICTIONS

#### ALL APPLICATIONS TO SORGHUM:

- **Maximum single use rate:** 5 pints of this product per acre (2.5 lbs. AI/acre),
- **Maximum annual use rate:** 5 pints of this product per acre per year (2.5 lbs. AI/acre),
- **Maximum number of applications per year:** 1 at the high rate
- **Minimum retreatment interval:** NA
- **Pre-harvest interval (PHI):** Preemergent Sorghum forage: 60 days; Postemergent Sorghum forage: 45 days
- **DO NOT** graze or feed forage from treated areas for 60 days for preemergent sorghum, and 45 days for postemergent sorghum following application, or illegal residues may result.
- **DO NOT** apply atrazine and propazine products to the same sorghum acre.

### USE PRECAUTIONS

#### ALL APPLICATIONS TO SORGHUM:

- Heavy rain immediately following application tends to cause excessive concentrations of herbicide in seed furrow, resulting in possible crop injury. Do not apply to furrow-planted sorghum until furrows are leveled (plowed in). Level deep planter marks or seed furrows before application.
- Application to sorghum growing under stress caused by minor element deficiency or to sorghum growing on highly calcareous soil may result in crop injury.
- Following harvest, plow (moldboard or disk-plow) and thoroughly till soil in fall or spring to minimize possible injury to spring-seeded rotational crops, regardless of rate used.
- Injury may occur if both this herbicide, preplant surface, preplant incorporated, or preemergence, and an at-planting systemic insecticide applied in-furrow are used.
- For all soil applications prior to crop emergence, except do not apply to coarse-textured soils, i.e., sand, loamy sand, sandy loam, or to medium- and fine-textured soils having less than 1% organic matter, or injury may occur.
- For postemergence applications, do not apply to sand or loamy sand, or injury may occur.

**Preplant Surface-Applied (Broadleaf and Grass Control):** Use on medium- and fine-textured soil with minimum-tillage or no-tillage systems only in CO, IL, IN, IA, KS, KY, MN, MO, MT, NE, ND, SD, WI, and WY. Apply the rate of Atrazine 4L shown in Table 3 up to 45 days prior to planting. If an unsatisfactory length of weed control results from adverse environmental conditions following early treatment, a follow-up application of an appropriately labeled herbicide may be used. If the follow-up treatment includes atrazine, do not exceed the labeled rate for corn indicated in Table 1. Under dry

conditions, irrigation after application is recommended to move Atrazine 4L into the soil.

If weeds are present at time of treatment, apply in a tank mix combination with a contact herbicide (for example, paraquat or glyphosate). Observe directions for use, precautions, and restrictions on the label of the contact herbicide.

**NOTE:** 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 INCORPORATED (Broadleaf and Grass Control):** Broadcast in spring after plowing at rate shown in Table 3. Apply before, during, or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation. For best results, apply within two weeks prior to planting.

**PREEMERGENCE or AT-PLANTING (Broadleaf and Grass Control):** Apply during or shortly after planting but prior to weed or crop emergence at rate shown in Table 3.

**POSTEMERGENCE (Broadleaf and grass control):** Apply at rate shown in Table 3 before weeds exceed 1.5 inches in height and before sorghum reaches 12 inches in height.

**TABLE 3: Broadleaf and Grass Weed Control in Sorghum<sup>1,2</sup>**

**FOR ALL SOIL APPLICATIONS PRIOR TO CROP EMERGENCE** maximum broadcast application rates for corn must be as follows:

- **ON HIGHLY ERODIBLE SOILS** (as defined by NRCS), if conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at planting, apply a maximum of 2 lbs.AI/A (4 pints/A of Atrazine 4L) as a single preemergence application. If the soil coverage with plant residue is less than 30% at planting, a maximum of 1.6 lbs.AI/A (3.2 pints/A of Atrazine 4L) as a single preemergence application; or 2.0 lbs.AI/A of this product if only applied postemergence.
- **ON SOILS NOT HIGHLY ERODIBLE:** Apply a maximum of 2 lbs.AI/A (4 pints/A of Atrazine 4L) as a single preemergence application.

**FOR ALL POSTEMERGENCE APPLICATION:** If no Atrazine was applied prior to sorghum emergence, apply a maximum of 2 lbs.AI/A (4 pints/A of Atrazine 4L) broadcast. If a postemergence treatment is required following an earlier herbicide application, the total atrazine applied may not exceed 2.5 lbs.AI/A (5 pints of Atrazine 4L) per calendar year.

<sup>1</sup> **DO NOT** apply preplant surface or preplant incorporated in AL, AR, FL, GA, LA, MS, NC, NM, OK, SC, TN, or TX. Do not apply preemergence in NM, OK, or TX, except in northeast OK and the TX Gulf Coast and the Blacklands areas.

<sup>2</sup> 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.

In case of planting failure, sorghum or corn may be replanted. **DO NOT** make a second broadcast application, or injury may occur. If originally applied in a band and sorghum or corn is replanted in untreated row middles, this product may be applied in a band to the second planting. The repeat application must not exceed 2.5 lbs.AI (5 pints Atrazine 4L) per acre per calendar year.

**POSTEMERGENCE BROADLEAF WEED CONTROL WITH EMULSIFIABLE OIL OR OIL**

**CONCENTRATE IN WATER:** Broadcast 2.4 pints/A of Atrazine 4L for control of many broadleaf weeds. Apply before pigweed and lambsquarters reach 6 inches in height and before all other weeds reach 4 inches in height. In CO, western KS, NM, OK, TX, apply when sorghum is 6-12 inches in height, but before it reaches boot stage. In all other areas, apply after sorghum reaches the 3-leaf stage, but before it exceeds 12" in height. Add 1 gallon of emulsifiable oil/A for ground application and 0.5 gallon/A for aerial application, or add 2 pints/A of oil concentrate for ground application. A cultivation may be necessary if all weeds are not controlled or if weeds regrow.

For the list of weeds controlled, see **Atrazine 4L, Applied Alone – Corn or Grain Sorghum – Postemergence with Emulsifiable Oil or Oil Concentrate in Water.**

Precautions for applications with emulsifiable oil or oil concentrate in water: See "Precautions for applications with emulsifiable oil or oil concentrate in water" in **Corn** section.

**POSTEMERGENCE BROADLEAF WEED CONTROL WITH SURFACTANT (CO, western KS, NM, OK, TX only):** Broadcast 2-4 pints/A of Atrazine 4L plus 0.75-1.5 pints of surfactant after sorghum reaches 6 inches in height, but before weeds exceed 1.5 inches in height. Apply only on sandy loam and finer textured soil.

#### **TANK MIXTURES FOR GRAIN SORGHUM**

**Metolachlor:** Use as tank mixture with metolachlor for control of those weeds listed on the metolachlor label, as well as on this label. Use this tank mixture only on sorghum seed treated with Concep®. Refer to the metolachlor product label for all directions, precautions, and limitations.

#### **USE RESTRICTIONS:**

- **DO NOT** apply atrazine and propazine products to the same sorghum acre.
- Use tank mixtures only on sorghum seed treated with Concep®.

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#### **WINTER WEED CONTROL IN TEXAS**

For postemergence control of winter weeds only, such as henbit, seedling dock and annual thistle on fall bedded land in the Gulf Coast and Blacklands of Texas. Apply 1.6 to 2 pints/A of Atrazine 4L postemergence to the weeds in November or December to land that will be planted to corn, grain sorghum, or forage sorghum the following spring. For best results, add a suitable surfactant, such as X-77®, at the rate of 0.5% of the spray volume, an emulsifiable oil at the rate of 1.0% of the spray volume, or an oil concentrate at the rate of 2 pints per acre.

Normal weed control programs may be used in the following: corn, grain sorghum or forage sorghum crop.

#### **USE RESTRICTIONS:**

- **Maximum single use rate:** 2 pints of this product per acre (1.0 lbs. AI/acre),
  - **Maximum annual use rate:** 2 pints of this product per acre per year (1.0 lbs. AI/acre),
  - **Maximum number of applications per year:** 1
  - **Minimum retreatment interval:** NA
  - **DO NOT** plant any crops, except corn, grain sorghum, or forage sorghum, the spring following this treatment, or illegal residues may result.
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## ATRAZINE 4L ALONE – CHEMICAL FALLOW

**WHEAT-SORGHUM-FALLOW:** To control annual broadleaf and grass weeds following wheat harvest and in the following sorghum crop when grown under minimum tillage, broadcast 4.5 pints/A of Atrazine 4L to wheat stubble immediately following wheat harvest. If weeds are present at application, remove them with a sweep plow or other suitable implement after application, or use an approved contact herbicide before or after the application of Atrazine 4L. Plant sorghum into wheat stubble the following spring with minimum soil disturbance. Use a surface planter or a planter leaving a shallow furrow. If weeds are present at planting, remove them with a sweep plow or other suitable implement before planting.

For the list of weeds controlled, see **Atrazine 4L Applied Alone – Corn or Grain Sorghum – Preplant Surface-Applied, Preplant Incorporated or Preemergence.**

### USE RESTRICTIONS:

- Wheat-Sorghum-Fallow is restricted to use in Arkansas, Colorado, Georgia, Illinois, Kansas, Louisiana, Mississippi, Missouri, Nebraska, New Mexico, North Carolina, Oklahoma, South Dakota, and Texas.
- Wheat-Sorghum-fallow cropping sequence must be followed.
- **Maximum single use rate:** 4.5 pints of this product per acre (2.25 lbs. AI/acre)
- **Maximum annual use rate:** 4.5 pints of this product per acre per year (2.25 lbs. AI/acre),
- **Maximum number of applications per year:** 1
- **Minimum retreatment interval:** NA
- **DO NOT** apply following sorghum harvest.
- To avoid illegal residues, **DO NOT** graze or feed forage from treated area to livestock.
- To avoid illegal residues and crop injury, **DO NOT** plant any crop other than those on this label within 18 months following treatment.
- Users must only apply to fallow land in the following states according to the prescribed rotation pattern in the table below:

<b>Fallow Rotation Pattern</b>	<b>Fallow Use Authorized in these States Only</b>
Wheat – Corn – Fallow	CO, KS, ND, NE, SD, & WY
Wheat – Fallow	CO, KS, ND, NE, SD, & WY
Wheat – Sorghum – Fallow	AR, CO, GA, IL, KS, LA, MS, MO, NE, NM, NC, OK, SD, & TX

### USE PRECAUTION:

- Use only on silt loam or finer-textured soil, or crop injury may result.

**WHEAT-CORN-FALLOW (CO, KS, ND, NE, SD, and WY):** This product controls cheatgrass (downy brome, chess), kochia, mustards, pigweed, Russian thistle, wild lettuce, wild sunflower, and volunteer wheat during period after wheat harvest. Weed control may extend into following corn crop grown under minimum tillage.

### USE RESTRICTIONS:

- Wheat-Corn-Fallow is restricted to use in Colorado, Kansas, Nebraska, North Dakota, South Dakota, and Wyoming.
- **Maximum single use rate:** 4.5 pints of this product per acre (2.25 lbs. AI/acre)
  - *For soils in ND and SD with a pH greater than 7.5:*
    - Do not apply more than 1.5 pounds active ingredient per acre for any application of Atrazine 4L (3 pints/A). Do not apply more than one application per year.
  - *For soils in ND and SD with a pH of less than 7.5:*



- Do not apply more than 1-2 pounds active ingredient per acre for any application. Do not apply more than one application per year. Use the higher rate on fine-textured soils and where heavy weed infestations are expected. Use the lower rate on coarse-textured soils and where light weed infestations are expected. In the event grasses are present in the following spring, use a grass herbicide registered for use on corn.
- *For all other locations:*
  - Do not apply more than 2.25 pounds active ingredient per acre for any application. Do not apply more than one application per year.
- **Maximum annual use rate:** 4.5 pints of this product per acre per year (2.25 lbs. AI/acre), (For North and South Dakota use, see single use rate restrictions.)
- **Maximum number of applications per year:** 1
- **Minimum retreatment interval:** NA

Follow directions for use, notes, and precautions in the **Wheat-Sorghum-Fallow** section above, substituting corn for references to sorghum.

**WHEAT-FALLOW-WHEAT (CO, KS, ND, NE, SD, and WY):** For preemergence control of cheatgrass (downy brome, chess), common lambsquarters, field pennycress, kochia, mustard, Russian thistle, wild lettuce, and suppression of volunteer wheat during fallow period of a wheat-fallow-wheat rotation, broadcast 1-2 pints/A of Atrazine 4L on all soils except those listed under **USE PRECAUTIONS**. For control of pigweed and wild sunflower, use the higher rate. Apply to stubble ground. Treat only once during same fallow period.

**USE RESTRICTIONS:**

- Wheat-Fallow-Wheat is restricted to use in Colorado, Kansas, Nebraska, North Dakota, South Dakota, and Wyoming.
- **Maximum single use rate:** 2 pints of this product per acre (1.0 lbs. AI/acre)
- **Maximum annual use rate:** 2 pints of this product per acre per year (1.0 lbs. AI/acre)
- **Maximum number of applications per year:** 1
- **Minimum retreatment interval:** NA

**TANK MIXTURES FOR CHEMICAL FALLOW**

**FALLOW ROTATION PATTERN**

Users must only apply to fallow land in the following states according to the prescribed rotation pattern in the table below.

Fallow Rotation Pattern	Fallow Use Authorized in these States ONLY
Wheat – Corn – Fallow	CO, KS, ND, NE, SD, & WY
Wheat – Fallow	CO, KS, ND, NE, SD, & WY
Wheat – Sorghum – Fallow	AR, CO, GA, IL, KS, LA, MS, MO, NE, NM, NC, OK, SD, & TX

**Wheat-Sorghum-Fallow or Wheat-Corn-Fallow**

**Atrazine plus paraquat:** If weeds are present at application, a tank mix with a product containing paraquat may be used. Broadcast 4.5 pints of Atrazine 4L plus the label rate of paraquat in 20-60 gallons of water/A by ground equipment. Add 0.5 to 1 pint of a nonionic surfactant, such as X-77®, per 100 gallons of spray mixture. Add Atrazine 4L to spray tank first and thoroughly mix with water. Then add paraquat, followed by surfactant. Use the higher rate of paraquat specified on the label if weeds are 4-6 inches tall. This mixture will not control weeds taller than 6 inches. Apply to stubble ground. Treat only once during same fallow period. Refer to paraquat product label for further directions,



precautions, and limitations.

#### **USE RESTRICTIONS:**

- Wheat-Sorghum-Fallow is restricted to use in Arkansas, Colorado, Georgia, Illinois, Kansas, Louisiana, Mississippi, Missouri, Nebraska, New Mexico, North Carolina, Oklahoma, South Dakota, and Texas.
- Wheat-Corn-Fallow is restricted to use in Colorado, Kansas, Nebraska, North Dakota, South Dakota, and Wyoming.
- **Maximum single use rate:** 4.5 pints of this product per acre (2.25 lbs. AI/acre),
- **Maximum annual use rate:** 4.5 pints of this product per acre per year (2.25 lbs. AI/acre),
- **Maximum number of applications per year:** 1
- **Minimum retreatment interval:** NA

#### **Wheat-Fallow-Wheat (CO, KS, NE, ND, SD, and WY)**

**Atrazine plus paraquat:** If weeds are present at application, a tank mix with a product containing paraquat may be used. Broadcast 1-2 pints of Atrazine 4L plus the label rate of paraquat in 20-60 gallons of water/A by ground equipment. Add 0.5 to 1 pint of a nonionic surfactant, such as X-77, per 100 gallons of spray mixture. Add Atrazine 4L to spray tank first and thoroughly mix with water. Then add paraquat, followed by surfactant. Use the high rate of paraquat if weeds are 4-6 inches tall.

This mixture will not control weeds taller than 6 inches. Apply to stubble ground. Treat only once during the same fallow period.

Refer to paraquat label for further directions, precautions, and limitations.

If weeds are present at application and this product is used alone, use either an approved contact herbicide before or after treatment, or tillage after treatment.

Use tillage to control weeds which escape during fallow period. Till before planting. For this product applied alone or in tank mixture with paraquat, plant at least 2 inches deep and 12 months or more after application.

#### **USE RESTRICTIONS:**

- Wheat-Fallow-Wheat is restricted to use in Colorado, Kansas, Nebraska, North Dakota, South Dakota, and Wyoming.
- **Maximum single use rate:** 2 pints of this product per acre (1.0 lbs. AI/acre),
- **Maximum annual use rate:** 2 pints of this product per acre per year (1.0 lbs. AI/acre),
- **Maximum number of applications per year:** 1
- **Minimum retreatment interval:** NA
- **DO NOT** graze treated areas within 6 months after application, or illegal residues may result.
- **DO NOT** use on sandy soil.
- **DO NOT** treat eroded hillsides, caliche and rocky outcroppings, or exposed caliche and rocky outcroppings, or exposed calcareous subsoil.
- **DO NOT** treat soils of the Rosebud and Canyon Series in Western NE and adjoining counties in CO and WY.
- **DO NOT** treat soils with calcareous surface layers or soils with a pH greater than 7.5.

**USE PRECAUTIONS:** To avoid crop injury:

- Avoid spray overlap.

**AERIAL APPLICATION:** 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 feet, using low-drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does

not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive non-target plants, apply Atrazine 4L alone by aircraft at a minimum upwind distance of 400 feet from sensitive plants.

## USE DIRECTIONS FOR ALL STATES

### SUGARCANE

For control of many broadleaf and grass weeds, including amaranths, crab grass, fireweed, Flora's paintbrush, foxtails, junglerice and wiregrass, broadcast 4-8 pints/A of Atrazine 4L at time of planting or ratooning, but before sugarcane emerges. Broadcast aerially in a minimum of 5 gallons of spray per acre, or broadcast or band by ground equipment in a minimum of 20 gallons per acre, unless indicated otherwise. One additional application may be made over the sugarcane as it emerges, and two additional applications may be made interline after emergence as directed sprays. Repeat treatments, where needed may be applied broadcast, band, or interline as suggested with the final application being prior to close-in.

**NOTE:** Where high rates of Atrazine are used alone, apply in a minimum of 2 pints of water for each 2 pints of Atrazine 4L applied per acre.

**AERIAL APPLICATION:** 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 feet, using low drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive non-target plants, apply Atrazine 4L alone by aircraft at a minimum upwind distance of 400 feet from sensitive plants.

#### USE RESTRICTIONS (for all states and uses):

- **Maximum single use rate:** 8 pints of this product per acre (4.0 lbs. Al/acre),
- **Maximum annual use rate:** 20 pints of this product per acre per year (10.0 lbs. Al/acre),
- **Maximum number of applications per year:** 2 at the high rate, 4 at the lower rate.
  - If making 4 pints/A application during summer fallow period, **DO NOT** exceed 16 pints/A of Atrazine 4L during the remainder of the growing season, or illegal residues may result.
- **Minimum retreatment interval:** 14 days
- **DO NOT** apply after close-in.
- **DO NOT** exceed the rate of herbicide specified for any one crop of sugarcane.
- **DO NOT** apply after close-in.

#### USE PRECAUTIONS (for all states and uses):

- Injury to sugarcane may occur when under moisture stress, when soil is of low adsorptive capacity, or when land is first cropped to sugarcane.

For specific weed problems, the following may be used. Other rate and application timings may be used for other weed spectrums and cultural practices, provided they are within the above "Use Directions for All States" and are consistent with the "**USE PRECAUTIONS (for all states and uses)**" and "**USE RESTRICTIONS (for all states and uses)**".

### FLORIDA

**For control of emerged pellitory weed:** Apply 0.8-1.2 pints/A of Atrazine 4L in at least 40 gallons of water as a directed spray by ground equipment prior to close-in. Add 8 pints of surfactant for each 100 gallons of spray. Thoroughly cover weed foliage.

For control of alexandergrass, large crabgrass, pellitory (artillery) weed, and spiny amaranth, use one

of the following methods at planting or ratooning:

1. Apply 8 pints/A of Atrazine 4L preemergence. Follow with one or two applications, as needed, post-emergence to sugarcane and weeds, at 4 pints/A of Atrazine 4L. Treat before weeds exceed 1.5 inches in height.
2. Apply 1-3 times, as needed, at 4 pints/A of Atrazine 4L postemergence to sugarcane and weeds. Treat before weeds exceed 1.5 inches in height.

### LOUISIANA

For control of annual weeds during the summer fallow period, apply 4 pints/A of Atrazine 4L to weed-free beds immediately after bed formation. Follow normal weed control after planting.

### TEXAS

Use Atrazine 4L for control of barnyardgrass, pigweed, purslane and sunflower, in plant or ratoon sugarcane.

Apply 8 pints/A of Atrazine 4L preemergence. Follow with one or two applications, as needed, at 6 pints/A postemergence to sugarcane and weeds.

For best results when weeds are emerged, add a nonionic surfactant at a concentration of 4 pints/100 gallons to the spray and apply before weeds exceed 1.5 inches in height.

## TURFGRASSES FOR SOD

**St. Augustinegrass, Centipedegrass, and Zoysia Grass:** Broadcast 4-8 pints/A of Atrazine 4L according to soil texture to control those weeds listed under **Atrazine 4L Applied Alone - Corn or Grain Sorghum - Preplant Surface-Applied, Preplant Incorporated, or Preemergence.**

Soil Texture	Broadcast Rate Per Acre	Application Timing
Muck or Peat	8 pints	Old beds: Within 2 days after lifting sod
		New beds: 3-4 days after sprigging or plugging
Sandy Soil	4 pints	Old beds: Within 2 days after lifting sod
		New beds: 7-10 days after sprigging or plugging

If weeds regrow, apply an additional 4 pints/A of Atrazine 4L on muck or peat, or 2 pints/A on sandy soil.

### USE RESTRICTIONS:

- **For muck or peat soils:**
  - **Maximum single use rate:** 8 pints of this product per acre (4.0 lbs. Al/acre),
  - **Maximum annual use rate:** 12 pints of this product per acre per year (6.0 lbs. Al/acre),
- **For sandy soils:**
  - **Maximum single use rate:** 4 pints of this product per acre (2.0 lbs. Al/acre),
  - **Maximum annual use rate:** 6 pints of this product per acre per year (3.0 lbs. Al/acre),
- **Maximum number of applications per year:** 2
- **Minimum retreatment interval:** NA
- **DO NOT** apply within 30 days prior to cutting or lifting.

- **DO NOT** apply in combination with surfactants or other spray additives.

#### **USE PRECAUTIONS:**

To avoid crop injury:

- Use only on turfgrass reasonably free of infestation of insects, nematodes, and diseases.
- On newly sprigged turfgrass, temporary slowing of growth may follow application.

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#### **TURFGRASSES FOR FAIRWAYS, AND COMMERCIAL TURFGRASS\***

\*For use on Residential Sites (including homes, daycare facilities, schools, playgrounds, parks, recreational areas, and sports fields), see section below.

**Bermudagrass, Centipedegrass, St Augustinegrass, and Zoysia Grass:** Apply Atrazine 4L after October 1 before emergence of winter annual weeds for control of annual bluegrass, burclover, carpet burweed, chickweed, corn speedwell, henbit, hop clover, and spurweed. Atrazine 4L will control annual bluegrass even if it is emerged at time of treatment. For control of summer annual weeds listed in the preemergence portion of the **Atrazine 4L Applied Alone – Corn or Grain Sorghum** section of the label, also apply Atrazine 4L in late winter before the weeds emerge. Apply in a minimum of 15 gallons of water per acre or 1 gallon per 1,000 sq. ft.

Where annual bluegrass is the major weed, use 2 pints/A of Atrazine 4L (22 ml or 0.75 fl. oz. per 1,000 sq. ft.). Use 2 pints/A of Atrazine 4L (22 ml or 0.75 fl. oz. per 1,000 sq.ft.) for control of the other weeds named above.

For continued summer annual weed control, apply another 2 pints/A of Atrazine 4L at least 30 days after the previous application, but not after April 15.

#### **USE RESTRICTIONS**

- **Maximum single use rate:** 2 pints of this product per acre (1.0 lbs. Al/acre),
- **Maximum annual use rate:** 4 pints of this product per acre per year (2.0 lbs. Al/acre),
- **Maximum number of applications per year:** 2
- **Minimum retreatment interval:** 30 days
- **DO NOT** exceed 2 pints/A of product per treatment on newly sprigged turfgrass or on hybrid bermudagrass such as Tiflawn, Tifway, and Ormond.
- Backpack applications to landscape turf are restricted to spot treatments only.

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#### **TURFGRASS AT RESIDENTIAL SITES (including homes, daycare facilities, schools, playgrounds, parks, recreational areas, and sports fields):**

**Bermudagrass, Centipedegrass, St Augustinegrass, and Zoysia Grass:** Apply Atrazine 4L after October 1 before emergence of winter annual weeds for control of annual bluegrass, burclover, carpet burweed, chickweed, corn speedwell, henbit, hop clover, and spurweed. Atrazine 4L will control annual bluegrass even if it is emerged at time of treatment. For control of summer annual weeds listed above, also apply Atrazine 4L in late winter before the weeds emerge. For all weeds, use 0.75 fl. oz. of Atrazine 4L per 1,000 sq. ft. (2 pints/A). Apply in a minimum of 1 gallon of water per 1,000 sq. ft. (15 gallons of water per acre).

For continued summer annual weed control, apply another 0.75 fl. oz. of Atrazine 4L per 1,000 sq. ft. (2 pints/A) at least 30 days after the previous application, but not after April 15. However, do not make

more than two applications of this product per year.

#### USE RESTRICTIONS:

- **Maximum single use rate:** 2 pints of this product (0.75 fl. oz. per 1,000 sq. ft.) per acre (1.0 lbs. Al/acre),
- **Maximum annual use rate:** 4 pints of this product (1.5 fl. oz. per 1,000 sq. ft.) per acre per year (2.0 lbs. Al/acre),
- **Maximum number of applications per year:** 2
- **Minimum retreatment interval:** 30 days
- **DO NOT** use on golf greens.
- **DO NOT** use north of NC (except may be used in Virginia Coastal Plains) or west of the high rainfall areas of eastern OK and eastern TX.
- **DO NOT** use on muck or alkaline soils.
- **DO NOT** apply over the rooting area of trees or ornamentals not listed on this label.
- **DO NOT** overseed with desirable turfgrass within 4 months before or 6 months after treatment.
- **DO NOT** apply this product to newly seeded bermudagrass until it has over-wintered and has a well-developed rhizome system. **DO NOT** exceed 4 pints product per acre within 12 months of seeding bermudagrass.
- **DO NOT** graze or feed turf clippings to animals, or illegal residues may result.
- Backpack applications to landscape turf are restricted to spot treatments only.

#### USE PRECAUTIONS:

- On newly sprigged turfgrass and hybrid bermudagrass, temporary slowing of growth and yellowing may occur following application. To avoid turf injury, use only on turfgrass reasonably free of infestations of insects, nematodes and diseases.

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#### MACADAMIA NUTS

For preemergence control of many broadleaf and grass weeds, including crabgrass, foxtail, wiregrass, Flora's paintbrush, Spanish needles, and fireweed, broadcast 4-8 pints/A of Atrazine 4L before harvest and before weeds emerge.

#### USE RESTRICTIONS

- **Maximum single use rate:** 8 pints of this product per acre (4.0 lbs. Al/acre),
- **Maximum annual use rate:** 16 pints of this product per acre per year (8.0 lbs. Al/acre),
- **Maximum number of applications per year:** 2
- **Minimum retreatment interval:** 14 days
- **Pre-harvest interval (PHI): DO NOT** spray when nuts are on ground during harvest period.
- **DO NOT** apply by air.
- For macadamia nuts, applications made by mechanically pressurized handguns are prohibited.

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#### GUAVA

Use only on established plantings which are at least 18 months old. Apply as directed spray at 4-8 pints/A Atrazine 4L in 20-50 gallons of spray mix preemergence or early postemergence to weeds. When applying postemergence, the use of a surfactant and great spray volume (80-100 gallons of spray mix per acre) may enhance weed control. This product controls many annual broadleaf and grass weeds, including fireweed, purslane, scarlet pimpernel, Spanish needles, and sowthistle.

**USE RESTRICTIONS:** To avoid illegal residues:

- **Maximum single use rate:** 8 pints of this product per acre (4.0 lbs. AI/acre),
- **Maximum annual use rate:** 16 pints of this product per acre per year (8.0 lbs. AI/acre),
- **Maximum number of applications per year:** 2 at the high rate
- **Minimum retreatment interval:** 4 months
- **DO NOT** allow spray to contact foliage or fruit.
- For guava, applications made by mechanically pressurized handguns are prohibited.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a secure, cool, dry location. Groundwater contamination may be reduced by diking and flooring of permanent bulk storage sites with an impermeable material.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

### CONTAINER HANDLING:

**Non-Bulk Containers: Non-refillable Container.** Do not use or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) 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.

**Triple rinse containers too large to shake (capacity > 5 gallons) as follows:** 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. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Bulk Containers: 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.

## WARRANTY AND LIMITATION OF DAMAGES

**CONDITIONS OF SALE:** To the extent consistent with applicable law, [Sipcam Oxon S.p.A.] [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 abnormal use conditions, or under conditions not reasonably foreseeable to [Sipcam Oxon S.p.A.] [Sipcam Agro USA, Inc.].

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