



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

November 10, 2021

Lisa Adamson  
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Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

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*  
*EPA Registration Number: 53883-95*  
*Application Date: 10/20/2020*  
*Decision Number: 568334*

Dear Lisa Adamson:

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 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

Page 2 of 2  
EPA Reg. No. 53883-95  
Decision No. 568334

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 Ben Tweed at [tweed.benjamin@epa.gov](mailto:tweed.benjamin@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington", with a long horizontal flourish extending to the right.

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

Enclosure

# Atrazine 4L

- For Use on Southern Grasses

**RESTRICTED USE PESTICIDE**

Due to ground and surface water concerns. For retail sale to and use only by certified applicator or persons under the direct supervision, and only for those uses covered by the certified applicator's certification.

ACTIVE INGREDIENTS:

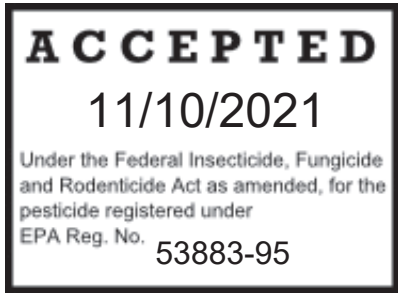
Atrazine (2-choro-4-ethylamino-6-isopropylamino-s-triazine)*.....	42.2%
Related compounds.....	0.8%
OTHER INGREDIENTS.....	57.0%
TOTAL	100.0%

\*5 lbs. active ingredient per gallon of product

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

NET CONTENTS: \_\_\_\_\_

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



**CAUTION:** Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Keep away from food and feedstuffs.

**Personal Protective Equipment:**

**Applicators and other handlers not using Engineering Controls must wear:**

- Coveralls over long-sleeved shirt and long pants,
- Chemical resistant gloves made of any waterproof material including barrier laminate, butyl rubber > 14 mils, nitrile rubber > 14 mils, neoprene rubber > 14 mils, natural rubber > 14 mils, polyethylene, polyvinyl chloride or viton > 14 mils
- Chemical resistant footwear plus socks,
- Chemical-resistant headgear (if overhead exposure),
- Wear a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and combination N\*, R, or P filters; OR a NIOSH-approved gas mask with OV canisters; OR a NIOSH-approved powered air purifying respirator with OV cartridges and combination HE filters.
- Chemical resistant apron (for mixers, loaders, cleaners of equipment or spills)

Follow manufacturer's instructions for cleaning and 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 statements:**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) (4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

Applicators, mixers, and loaders using enclosed cabs or closed loading systems must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves and apron
- Shoes plus socks

And must have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown:

- coveralls
- chemical resistant footwear
- NIOSH approved dust mist filtering respirator with the appropriate N, R, P or HE filter

In addition, applicators must have available chemical resistant headgear if overhead exposure:

- take off any PPE that was worn in the treated area before reentering the cab, and
- store all such PPE in a chemical resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

Pilots must use an enclosed cockpit in a manner that is consistent with the WPS for Agricultural Pesticides [40 CFR170.240 (d) (4)].

Flagger supporting the 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, such flaggers must:

- Wear the personal protective equipment required for flaggers.
- Either wear a NIOSH approved dust mist filtering respirator with the appropriate N, R, P or HE filter, or use an enclosed cab that provides inhalation protection equivalent to a dust mist respirator.
- Be provided and must have immediately available for use in an emergency when they must exit the cab in the treated area: coveralls, chemical resistant gloves, 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 inside of the cab.

#### **USER SAFETY RECOMMENDATIONS**

Users should:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing 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.

<b>FIRST AID</b>	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact SafetyCall® (866) 897-8050 for emergency medical treatment information.	
If swallowed	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
If inhaled	<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 by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If in eyes	<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>
If on skin or clothing	<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>

### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Keep out of lakes, streams, and ponds. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

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 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, 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 rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or form 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.

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 surface water runoff from treated areas 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.

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

This product is toxic to plants 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.

## **WEED RESISTANCE MANAGEMENT**

For resistance management, please note that Atrazine 4L contains a Group 5 atrazine herbicide. Any weed population may contain plants naturally resistant to Group 5 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.

### **Weed Management**

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 of among growing seasons with different herbicide groups that control the same weeds in the 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 consider 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 before and after herbicide application to monitor weed populations for early signs or 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 Control Solutions, Inc. at **1-800-242-5562**.

## **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### **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](mailto:ESPP@epa.gov). You must use the Bulletin valid for the month in which you will apply the product.

## **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.

## **MANDATORY SPRAY DRIFT MANAGEMENT**

### **Boomless Ground Application:**

- 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.
- **DO NOT** apply during temperature inversions.
- 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.

### **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.
- Applications 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.
- 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.
- User must maintain a 150 foot (46 m) 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

### **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.
- 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 inversion.
- User must maintain a 15 foot (4.6 m) 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.

## **SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

Be aware of nearby Non-Target sites and environmental conditions.

## **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.

### **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.

**Boomless Ground Applications:**

Setting nozzles at the lowest effective height will help to reduce the potential.

**Handheld Technology Applications:**

Take precautions to minimize spray drift.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with 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 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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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



### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

**DO NOT** store under conditions which might adversely affect the container or its ability to function properly.

**PESTICIDE STORAGE: DO NOT** store below temperature of 0°F. If frozen, warm to 40°F, and reconstitute before using by rolling or shaking the container. Store in a safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.

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

**CONTAINER DISPOSAL: Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. **Metal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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

### GENERAL INFORMATION

This product controls\* most annual broadleaf and grass weeds in the crops included on this label. This product may be applied before or after weeds emerge.

**\*Important Note:** Following many years of continuous use of this product and chemically related products, biotypes of some of the weeds listed on this label have been reported which cannot be effectively controlled by this and related herbicides. These weeds may include annual bluegrass, yellow foxtail and others. Where this is known or suspected, we recommend the use of this product in combination with other registered herbicides which are not triazines. Consult your State Agricultural Extension Service about specific weed resistance to atrazine in your area and weed control recommendations. Within the specific crop directions on this label, certain weeds, are indicated for suppression only. Weed suppression is a visual reduction in weed competition (reduce population and/or vigor) as compared to an untreated area. Degree of suppression will vary with rate used, size of weeds, and environmental conditions following treatments.

Since this herbicide acts mainly through root absorption, its effectiveness depends on rainfall or irrigation to move it into the root zone, (except for already emerged weeds). Care should be taken to avoid using this product where adjacent desirable trees, shrubs, or plants might be injured.

**Note:** Manufacturer does not recommend the use of this product in combination with other herbicides or oils except as specifically described on this label or supplemental labeling distributed by manufacturer.

## APPLICATION PROCEDURES

**Small hand or power sprays:** This product should be mixed with water and applied as a spray. Pour product into the tank during or after filling. Agitation is recommended during mixing and application to keep the material in suspension. Wash sprayer thoroughly after use. Do not apply this product through any type of irrigation system.

Mixing procedures:

- (1) Be sure sprayer is clean and not contaminated with other products as plant injury may result.
- (2) Fill tank  $\frac{1}{2}$  to  $\frac{3}{4}$  full with clean water.
- (3) Add required amount of this product to tank.
- (4) Finish filling tank with water and agitate mixture.
- (5) Clean sprayer thoroughly immediately after use by flushing system with water containing a detergent.

NOTE: Adding other insecticides, herbicides, liquid fertilizer or other materials is not recommended because they may cause compatibility problems or plant injury.

**Commercial 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. Screens and strainers should be no finer than 50 mesh. Use a pump with capacity to (1) provide sufficient hydraulic agitation during mixing and application to keep the material in suspension, and (2) maintain 35-40 psi operating pressure.

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

$$\begin{array}{l} \text{Band width in inches} \\ \text{Row width in inches} \end{array} \times \begin{array}{l} \text{Rate/A for} \\ \text{Broadcast treatment} \end{array} = \begin{array}{l} \text{Amount needed} \\ \text{for band treatment} \end{array}$$

**Aerial application:** Use aerial application only where broadcast applications are specified. Apply in a minimum of 1 gallon of water for each 1 quart of this product applied per acre. Avoid applications under conditions where excessive spray drift may occur. Avoid application directly to animals. Flagmen and loaders should avoid inhalation of spray mist. With fixed-wing aircraft or helicopter application, an exactly even swath deposition cannot be achieved, and consequently crop injury or pesticide nonperformance may result wholly or in part. Do not apply by air during periods of thermal inversion.

Commercial Ground and Aerial Application in Water: This product should be mixed with water and applied as a spray. Pour product into the tank during or after filling. Hydraulic (jet) or mechanical agitation is recommended during mixing and application to keep the product in suspension. All return lines to the tank must discharge below liquid level and agitation should not be so violent as to cause air bubbles to form in the liquid. Wash sprayer thoroughly after use.

NOTE: Adding other insecticides, herbicides, liquid fertilizer or other materials is not recommended because they may cause compatibility problems or plant injury.

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

**TURFGRASSES FOR SOD (FLORIDA ONLY)**  
**ST. AUGUSTINE GRASS, CENTIPEDEGRASS, AND ZOYSIA GRASS**

For the control of most annual broadleaf and grass weeds such as barnyardgrass\*, witchgrass\* (*Panicum Capillare*), yellow foxtail\*, green foxtail\*, wild oats, large (hairy) crabgrass, velvetleaf\*, morningglory, lambsquarters\*, ragweed, nightshade\*, purslane and mustard. (\*Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE with GENERAL INFORMATION SECTION of this label.)

Soil Texture	Broadcast Per Acre	Application Timing
Muck or peat	4 qts.	<b>Old Beds:</b> Within 2 days after lifting sod. <b>New Beds:</b> 3-4 after sprigging or plugging.
Sandy Soil	2 qts.	<b>Old Beds:</b> Within 2 days after lifting sod. <b>New Beds:</b> 7-10 days after sprigging or plugging.

If weeds regrow, apply an additional 2 qts. per acre on muck or peat, or 1 qt. per acre on sandy soil.

**PRECAUTIONS:**

- (1) Do not apply within 30 days prior to cutting or lifting.
- (2) Do not make more than 2 application per calendar year.
- (3) Do not apply in combination with surfactants or other spray additives.
- (4) Use only on turfgrass that is reasonably free of insect, nematode, and disease infestations.
- (5) On newly sprigged turfgrass, temporary slowing of growth may follow application.

**TURFGRASS FOR FAIRWAYS, LAWNS,  
SOD PRODUCTION (in states other than Florida)  
and SIMILAR AREAS**

**Application to residential lawns are prohibited.**

**BERMUDAGRASS, CENTIPEDEGRASS, ST. AUGUSTINEGRASS AND ZOYSIA GRASS.**  
To control annual bluegrass\*, burclover, carpet burweed, chickweed, corn speedwell, henbit, hop clover, and spurweed make application after October 1, prior to emergence of winter annual weeds. Annual bluegrass will be controlled even if it is emerged at time of treatment. To control summer annual weeds such as barnyardgrass\*, witchgrass\* (*Panicum capillare*), yellow foxtail\*, green foxtail\*, wild oats, large (hairy) crabgrass, velvetleaf\*, morningglory, lambsquarters\*, ragweed, nightshade, purslane and mustard, apply this product in late winter before the weeds emerge. Apply in a minimum of 15 gals. of water per acre or 1 gal. per 1,000 sq. ft. (\*Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMATION SECTION of this label). In area where the major weed is annual bluegrass, apply 1 qt. per acre (0.75 fl. Oz. per 1,000 sq. ft.). To control the other weeds listed above, apply 2 qts. per acre (1.5 fl. oz. per 1,000 sq. ft.). **DO NOT** apply more than 1 qt. per treatment on newly sprigged turfgrass or on hybrid bermudagrass such as Tiflawn, Tifway, and Ormond. For continued summer annual weed control, apply another 1 qt. per acre at least 30 days after the previous application, but not after April 15. **DO NOT** make more than 2 applications of this product per year.

Precautions: On newly sprigged turfgrass and hybrid bermudagrass, temporary slowing of growth and yellowing may occur following application.

To avoid turf injury:

- (1) Use only on turfgrass reasonable free of insect, nematode, and disease infestations.
- (2) **DO NOT** use on golf greens.
- (3) **DO NOT** use north of NC (except maybe used in Virginia Coastal Plains) or west of the high rainfall areas of eastern OK and eastern TX.
- (4) **DO NOT** use on muck or alkaline soils
- (5) **DO NOT** apply over the rooting area of trees or ornamentals not listed on this label.
- (6) **DO NOT** overseed with desirable turfgrass with 4 months before or 6 months after treatment.

Note: **DO NOT** graze or feed turf clippings to animals.

#### **NOTICE**

IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS INHERENTLY ASSOCIATED WITH THE USE OF THIS PRODUCT. PLANT INJURY, INEFFECTIVENESS, OR OTHER UNINTENDED CONSEQUENCES MAY RESULT BECAUSE OF SUCH FACTORS AS WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF CONTROL SOLUTIONS, INC. OR SELLER. IN NO CASE SHALL CONTROL SOLUTIONS, INC. OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.

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Control Solutions, Inc.  
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