

ATRAZINE 4L TURF AND CONIFER HERBICIDE



ACCEPTED

2 - 1980
Under the Federal Insecticide, Fungicide, and Rodenticide Act
EPA Reg. No. 24704-690
For Use on Southern Grasses and in Conifers.

SUBMITTED 3/28/91

ACTIVE INGREDIENTS:

Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine)	42.2%
Related compounds	0.8%
INERT INGREDIENTS:	57.0%
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION

See Below For Additional Precautionary Statements.
EPA REG. NO. 34704-690
EPA EST. NO. _____
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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 must wear: long sleeved shirt and long pants, waterproof gloves and shoes plus socks.
Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
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.

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.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Call Physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.
If On Skin: Wash skin with soap and water.
If In Eyes: Flush with plenty of water. Get medical attention if irritation persists.
If Inhaled: Remove victim to fresh air. Apply artificial respiration if indicated.

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 the receiving areas. Keep out of lakes, streams, and ponds. Do not contaminate water

when 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.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.
For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.
Do not 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, waterproof gloves and shoes plus socks.

STORAGE AND DISPOSAL

PROHIBITIONS: 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.
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 safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can effect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.
PESTICIDE DISPOSAL: Wastes 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, herbicide resistance 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, but are not limited to:

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grass, 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 sprayers: 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 1/2 to 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:

Band width in inches	Rate Acre	Amount needed
Row width in inches	for a 1/2 acre treatment	for band treatment

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 uniform coverage cannot be obtained or 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 a platoon 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. AUGUSTINEGRASS, 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	Old Beds: Within 2 days after lifting sod New Beds: 3-4 days after sprigging or plugging
Sandy Soil	2 qts	Old Beds: Within 2 days after lifting sod New Beds: 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 apply in combination with surfactants or other spray additives. (3) Use only on turfgrass that is reasonably free of insect, nematode, and disease infestations. (4) 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

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 with GENERAL INFORMATION SECTION of this label.)

In areas 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 bermuda grass 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 reasonably free of insect, nematode, and disease infestations. (2) Do not use on golf greens. (3) Do not use north of NC (except may be used in Virginia Coastal Plain) 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.

CONIFERS

For control of annual broadleaf and grass weeds such as barnyard grass*, witchgrass* (*Panicum capillare*), yellow foxtail*, green foxtail*, wild oats, large (hairy) crabgrass, velvetleaf*, morningglory, lambsquarters*, ragweed, nightshade*, purslane, and mustard, in Douglas fir, grand fir, noble fir, white fir, Austrian pine, bishop pine, Jeffrey pine, knobcone pine, obloolly pine, lodgepole pine (shore pine), Monterey pine, ponderosa pine, Scotch pine, slash pine, blue spruce, and Sitka spruce. Broadcast 2-4 qts in a minimum of 5 gals. of water per acre by air or 10 gals. by ground prior to transplanting, soon after transplanting, or in established conifers between fall and early spring while trees are dormant. For applications prior to transplanting, allow sufficient precipitation to activate herbicide before transplanting. In areas where spring and summer rainfall is inadequate to activate herbicide, apply during fall prior to spring transplanting.

Quackgrass* control: Broadcast 4 qts in a minimum of 5 gals. of water per acre by air or 10 gals. by ground between fall and early spring while trees are dormant and before quackgrass is more than 1 1/2 inches tall. (Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE with GENERAL INFORMATION SECTION of this label.)

Precautions: (1) In areas west of the Rocky Mountains (except the Great Basin), grazing may begin 7 months after a fall application or 3 months after a winter or spring application. (2) To prevent illegal residue, do not graze treated areas of the Great Basin, or areas east of the Rocky Mountains. (3) Temporary injury to trees may occur following use of this product on coarse textured soil. (4) To avoid crop injury, do not apply to seed beds. (5) Also apply only once per year.

Aerial application: In order to assure that spray will be directed to within the target area, when used by air, refer to label directions for application at a minimum height of 100 feet above target area.

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drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive nontarget plants, apply by aircraft at a minimum upwind distance of 400 ft. from sensitive plants. Note: In very hilly or mountainous terrain where the 10 foot flying height is unsafe, fly as low as possible. There may be increased risk of spray drift and uneven application.

NOTICE

PLATTE WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL THEREOF AND IS REASONABLY FIT FOR THE PURPOSES STATED ON SUCH LABEL ONLY WHEN USED IN ACCORDANCE WITH THE DIRECTIONS UNDER NORMAL USE CONDITIONS. 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 PLATTE. IN NO CASE SHALL PLATTE 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. EXCEPT AS EXPRESSLY PROVIDED HEREIN, PLATTE MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESSED OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND PLATTE'S TOTAL LIABILITY, SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

FORMULATED FOR
PLATTE CHEMICAL CO.
150 SO. MAIN ST. FREMONT, NEBRASKA 68025 5697