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62719-37

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L1A/Garlon 3A/Amend/11-11-96

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Registration Notes for Previous Labeling Actions:

Garlon* 3A

EPA Reg. No. 62719-37

Final Printed Labeling: Label text based on EPA accepted copy dated March 21, 1996 and Notification prepared June 17, 1996.

The following changes were accepted as a notification prepared June 17, 1996:

Label text based on EPA accepted copy dated March 21, 1996.

Proposed Label Changes by Notification (prepared 6-17-96):

1. Forestry (WPS) uses added to the main product label from supplemental labeling (supplemental label form number 123-12-016).

Final Printed Labeling: Label text based on EPA-accepted copy dated March 21, 1996.

Label changes EPA-accepted 03/21/96:

The following changes were made to Precautionary Statement for Garlon 3A in response to new Acute Dermal Toxicity study (Toxicity Category IV): (1) Revised statements of hazards and precautionary measures text; (2) Deleted Waterproof gloves from PPE required for Applicators and Other Handlers.

Final Printed Labeling: Label text based on EPA-accepted copy dated 02/23/94 and the following notifications:

By Notification 04/22/94:

1. Remove the words "Vegetation Management" following product name.
2. Removed references to brand names for non-ionic surfactants such as Valent X-77 and Triton AG-98 and replaced with generic product descriptions.
3. Removed reference to brand names for drift control agents such as Nalco-Trol and Arborchem 38-F and replaced with generic product descriptions.

Correction of Container Disposal statement (by notification 07/20/94):

The container disposal statement for plastic containers was corrected to read as follows (added text underlined):

"Container Disposal (Plastic): Do not reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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."

Current changes in label format (by notification 01/20/95):

1. Forestry (WPS) uses removed from main product label to supplemental labeling.

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ACCEPTED
with COMMENTS
In EPA Letter Dated

NOV 20 1996

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

62719-37

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(Base label):

(logo) DowElanco

Garlon* 3A

For the control of woody plants and broadleaf weeds on rights-of-way, industrial sites, non-crop areas, non-irrigation ditch banks, forests, and wildlife openings, including grazed areas on these sites.

Active Ingredient:

triclopyr: 3,5,6-trichloro- 2-pyridinyloxyacetic acid, triethylamine salt	44.4%
Inert Ingredients	55.6%
Total	100.0%

Acid equivalent: triclopyr - 31.8% - 3 lb/gal

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

DANGER PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Corrosive • Causes Irreversible Eye Damage • Harmful If Swallowed or Inhaled • Prolonged Or Frequently Repeated Skin Contact With Herbicide Concentrate May Cause An Allergic Skin Reaction In Some Individuals.

Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing vapor or spray mist.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear

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

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.

First Aid

If in eyes: Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If swallowed: Call a physician or poison control center. Promptly drink a large quantity of milk, egg whites, or gelatin solution, or if these are not available, drink large quantities of water. Do not induce vomiting. Avoid alcohol.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

Note to Applicator: Allergic skin reaction is not expected from exposure to spray mixtures of Garlon 3A herbicide when used as directed.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards

Do not use or store near heat or open flame. Do not cut or weld container.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to label booklet for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations and Directions for Use including Storage and Disposal.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of emergency endangering health or the environment involving this product, call collect 517-636-4400.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-37

EPA Est. 464-MI-1

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DowElanco • Indianapolis, IN 46268 USA

Specialty Herbicide

Net Contents XXX

(Datapack cover):

(logo) DowElanco

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triclopyr: 3,5,6-trichloro- 2-pyridinyloxyacetic acid, triethylamine salt	44.4%
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(Page 1-through end):

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Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing vapor or spray mist.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear

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

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.

First Aid

If in eyes: Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If swallowed: Call a physician or poison control center. Promptly drink a large quantity of milk, egg whites, or gelatin solution, or if these are not available, drink large quantities of water. Do not induce vomiting. Avoid alcohol.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

Note to Applicator: Allergic skin reaction is not expected from exposure to spray mixtures of Garlon 3A herbicide when used as directed.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards

Do not use or store near heat or open flame. Do not cut or weld container.

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Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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

Agricultural Use Requirements

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 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
- Shoes plus socks
- Protective eyewear

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

Storage: Store above 28°F or agitate before use.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate, is a violation of federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal for Refillable Containers: Seal all openings which have been opened during use. Return the empty container to a collection site designated by DowElanco. If the container has been damaged and cannot be returned according to the recommended procedures, contact DowElanco Customer Service Center at 1-800-258-1470 to obtain proper handling instructions.

Container Disposal (Metal): Do not reuse container. 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.

Container Disposal (Plastic): Do not reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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.

General: Consult federal, state, or local disposal authorities for approved alternative procedures.

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General Information

Garlon* 3A herbicide is recommended for the control of unwanted woody plants and annual and perennial broadleaf weeds in non-crop areas including industrial manufacturing and storage sites, rights-of-way such as electrical power lines, communication lines, pipelines, roadsides, railroads, fence rows, non-irrigation ditch banks, and around farm buildings. Use on these sites may include application to grazed areas as well as establishment and maintenance of wildlife openings.

General Use Precautions

In Arizona: The state of Arizona has not approved Garlon 3A for use on plants grown for commercial production; specifically forests grown for commercial timber production, or on designated grazing areas.

Apply this product only as specified on this label.

Before using any recommended tank mixtures, read the directions and all use precautions on both labels. When applying this product in tank mix combination, follow all applicable use directions, precautions and limitations on each manufacturer's label.

Be sure that use of this product conforms to all applicable regulations.

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

Do not apply Garlon 3A directly to, or otherwise permit it to come into direct contact with grapes, tobacco, vegetable crops, flowers, or other desirable broadleaf plants, and do not permit spray mists containing it to drift into them.

It is permissible to treat non-irrigation ditch banks, seasonally dry wetlands, flood plains, deltas, marshes, swamps, bogs, and transitional areas between upland and lowland sites. Do not apply to open water such as lakes, reservoirs, rivers, streams, creeks, salt water bays, or estuaries.

Avoid Injurious Spray Drift

Applications should be made only when there is little or no hazard from spray drift. Very small quantities of spray, which may not be visible may seriously injure susceptible plants. Do not spray when wind is blowing toward susceptible crops or ornamental plants near enough to be injured. It is suggested that a continuous smoke column at or near the spray site or a smoke generator on the spray equipment be used to detect air movement, lapse conditions, or temperature inversions (stable air). If the smoke layers or indicates a potential of hazardous spray drift, do not spray.

Aerial Application: For aerial application on rights-of-way or other areas near susceptible crops, apply through a Microfoil or Thru-Valve boom, or use an agriculturally registered drift control additive. Other drift reducing systems or thickened sprays prepared by using high viscosity inverting systems may be used if they are made as drift-free as are mixtures containing agriculturally registered thickening agents or applications made with the Microfoil or Thru-Valve boom. Keep spray pressures low enough to provide coarse spray droplets. Spray boom should be no longer than 3/4 of the rotor length. Do not use a thickening agent with the Microfoil or Thru-Valve booms, or other systems that cannot accommodate thick sprays. Spray only when the wind velocity is low (follow state regulations). Avoid application during air inversions. If a spray thickening agent is used, follow all use recommendations and precautions on the product label.

Reference within this label to a particular piece of equipment produced by or available from other parties is provided without consideration for use by the reader at its discretion and subject to the reader's independent circumstances, evaluation, and expertise. Such reference by DowElanco is not intended as an endorsement of such equipment, shall not constitute a warranty (express or implied) of such equipment, and is not intended to imply that other equipment is not available and equally suitable. Any discussion of methods of use of such equipment does not imply that the reader should use the equipment other than is advised in directions available from the equipment's manufacturer. The reader

is responsible for exercising its own judgment and expertise, or consulting with sources other than DowElanco, in selecting and determining how to use its equipment.

With aircraft, drift can be lessened by applying a coarse spray; by using no more than 30 pounds spray pressure at the nozzles; by using a spray boom no longer than 3/4 the rotor length; by spraying only when wind velocities are low; or by using an approved drift control system.

Ground Equipment: To aid in reducing spray drift, Garlon 3A should be used in thickened (high viscosity) spray mixtures using an agriculturally registered drift control additive, high viscosity invert system, or equivalent as directed by the manufacturer. With ground equipment, spray drift can be reduced by keeping the spray boom as low as possible; by applying 20 gallons or more of spray per acre; by keeping the operating spray pressures at the lower end of the manufacturer's recommended pressures for the specific nozzle type used (low pressure nozzles are available from spray equipment manufacturers); and by spraying when wind velocity is low (follow state regulations). In hand-gun applications, select the minimum spray pressure that will provide adequate plant coverage (without forming a mist). Do not apply with nozzles that produce a fine-droplet spray.

High Volume Leaf-Stem Treatment: To minimize spray drift, do not use pressure exceeding 50 psi at the spray nozzle and keep sprays no higher than brush tops. An agriculturally registered thickening agent may be used to reduce drift.

Do not apply on ditches used to transport irrigation water.

Do not apply where runoff or irrigation water may flow onto agricultural land as injury to crops may result.

The use of a mistblower is not recommended.

Grazing and Haying Restrictions

Grazing or harvesting green forage:

- 1) Lactating dairy animals
 - 2 2/3 quarts/acre or less: Do not graze or harvest green forage from treated area for 14 days after treatment.
 - Greater than 2 2/3 quarts to 8 quarts/acre: Do not graze or harvest green forage until the next growing season.
- 2) Other livestock
 - 2 2/3 quarts/acre or less: No grazing restrictions.
 - Greater than 2 2/3 quarts to 8 quarts/acre: Do not graze or harvest green forage from treated area for 14 days after treatment. **Note:** If less than 25% of a grazed area is treated, there is no grazing restriction.

Haying (harvesting of dried forage):

- 1) Lactating dairy animals
 - Do not harvest hay until the next growing season.
- 2) Other livestock
 - 2 2/3 quarts/acre or less: Do not harvest hay for 7 days after treatment.
 - Greater than 2 2/3 quarts to 5 1/3 quarts/acre: Do not harvest hay for 14 days after treatment.
 - Greater than 5 1/3 quarts/acre: Do not harvest hay until the next growing season.

Slaughter Restrictions:

Withdraw livestock from grazing treated grass or consumption of treated hay at least 3 days before slaughter. This restriction applies to grazing during the season following treatment or hay harvested during the season following treatment.

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Plants Controlled by Garlon 3A

Woody Plant Species

alder	Douglas-fir	poplar
arrowwood	dogwood	salt-bush (<i>Baccharis</i> spp.)
ash	elderberry	sassafras
aspen	elm	scotch broom
bear clover (bearmat)	gallberry	sumac
beech	hazel	sweetbay magnolia
birch	hornbeam	sweetgum
blackberry	kudzu†	sycamore
blackgum	locust	tanoak
Brazilian pepper	madrone	thimbleberry
casara	maples	tulip poplar
Ceanothus	mulberry	waxmyrtle
cherry	oaks	western hemlock
chinquapin	persimmon	wild rose
choke cherry	pine	willow
cottonwood	poison ivy	winged elm
Crataegus (hawthorn)	poison oak	salmonberry

†For complete control, retreatment may be necessary.

Annual and Perennial Broadleaf Weeds

bindweed	dandelion	smartweed
burdock	field bindweed	tansy ragwort
Canada thistle	lambquarter	vetch
chicory	plantain	wild lettuce
curly dock	ragweed	

Approved Uses

Use Garlon 3A at rates of 1/4 to 3 gallons per acre to control broadleaf weeds and woody plants. In all cases use the amount specified in enough water to give uniform and complete coverage of the plants to be controlled. Use only water suitable for spraying. Use of an agriculturally registered non-ionic surfactant is recommended for all foliar applications. When using surfactants, follow the use directions and precautions listed on the surfactant manufacturer's label. Use the higher recommended concentrations of surfactant in the spray mixture when applying lower spray volumes per acre. The recommended order of addition to the spray tank is water, spray thickening agent (if used), additional herbicide (if used), and Garlon 3A. Surfactant should be added to the spray tank last or as recommended on the product label. If combined with emulsifiable concentrate herbicides, moderate continuous adequate agitation is required.

Consult the table to determine which rate of application is suggested for a particular use.

Before using any recommended tank mixtures, read the directions and all use precautions on both labels.

For best results, applications should be made when woody plants and weeds are actively growing. When hard-to-control species such as ash, blackgum, choke cherry, elm, maples, oaks, pines, or winged elm are prevalent and during applications made in late summer when the plants are mature and during drought conditions, use the higher rates of Garlon 3A alone or in combinations with Tordon* 101 Mixture herbicide (Tordon 101 mixture is a restricted use pesticide. See product label).

When using Garlon 3A in combination with 2,4-D 3.8 lb amine or low volatile ester herbicides, generally the higher rates should be used for satisfactory brush control.

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Use the higher dosage rates when brush approaches an average of 15 feet in height or when the brush covers more than 60% of the area to be treated. If lower rates are used on hard-to-control species, resprouting may occur the year following treatment.

On sites where easy to control brush species dominate, rates less than those recommended may be effective. Consult State or Local Extension personnel for such information.

High-Volume-Leaf-Stem-Foliage Treatment With Ground Equipment

High Volume Foliage Treatment

For control of woody plants, use Garlon 3A at the rate of 1/2 to 1 gallon in water to make 100 gallons of spray solution or Garlon 3A at 1 to 4 quarts may be tank mixed with 1/4 to 1/2 gallon of 2,4-D 3.8 lb amine or low volatile ester or Tordon 101 Mixture herbicide and diluted to make 100 gallons of spray solution. Apply at a volume of 100 to 400 gallons of total spray per acre depending on size and density of woody plants. Coverage should be thorough to wet all leaves, stems, and root collars. (See "General Use Precautions").

Low Volume Foliar (Directed Spray) Foliage Treatment

For control of susceptible woody plants, mix 4 to 5 gallons of Garlon 3A in water to make 100 gallons of spray mixture, or mix 1.5 to 3 gallons of Garlon 3A with 1/2 to 1 gallon of Tordon K or 1 to 2 gallons of Tordon 101M in water to make 100 gallons of spray mixture. For best results, a surfactant should be added to all spray mixtures. When treating tall, high density brush, apply with a truck mounted spray gun and spray tips that deliver about 2 gallons per minute at 40 to 60 psi. For short, low to moderate density brush, backpack applications with spray tips that deliver 1 gallon or less of spray per minute are recommended. Apply at a volume that will wet the target brush, but minimize runoff. Resulting spray volumes will approximate 30 to 60 gallons per acre for truck-mounted sprayers and 10 to 20 gallons per acre for backpack sprayers.

To control susceptible woody plants, apply up to 5 gallons of Garlon 3A in 10 to 100 gallons of finished spray. The spray concentration of Garlon 3A and total spray volume per acre may be adjusted according to the size and density of target woody plants and kind of spray equipment used. With low volume sprays, use sufficient spray volume to obtain uniform coverage of target plants including the surfaces of all foliage, stems, and root collars (See General Use Precautions). For best results, a surfactant should be added to all spray mixtures. Match equipment and delivery rate of spray nozzles to height and density of woody plants. When treating tall, dense brush, a truck mounted spray gun with spray tips that deliver up to 2 gallons per minute at 40 to 60 psi may be required. Backpack or other types of specialized spray equipment with spray tips that deliver less than 1 gallon of spray per minute may be appropriate for short, low to moderate density brush.

Tank Mixing: As a low volume foliar spray, up to 3 gallons of Garlon 3A may be applied in tank mix combination with 1/2 to 1 gallon of Tordon K or 1 to 2 gallons of Tordon 101 Mixture in 10 to 100 gallons of finished spray.

Broadcast Applications With Ground Equipment

Make application using equipment that will assure uniform coverage of the spray volumes applied. To improve Spray Coverage, add an agriculturally registered non-ionic surfactant as described later under "Directions For Use".

Woody Plant Control

Foliage Treatment: Use 2 to 3 gallons of Garlon 3A in enough water to make 20 to 100 gallons of total spray per acre or Garlon 3A at 1/2 to 1 gallon may be combined with 1 to 2 gallons of 2,4-D 3.8 lb amine or low volatile esters or Tordon 101 Mixture in sufficient water to make 20 to 100 gallons of total spray per acre.

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Broadleaf Weed Control

Use Garlon 3A at rates of 1/3 to 1 1/2 gallons in a total volume of 20 to 100 gallons per acre as a water spray mixture. Apply any time during the growing season. Garlon 3A at 1/3 to 1 gallon may be tank mixed with 1/2 to 1 gallon of Tordon K, Tordon 101 Mixture or 2,4-D 3.8 lb amine or low volatile herbicides to improve the spectrum of activity.

Aerial Application (Helicopter Only)

Aerial sprays should be applied using suitable drift control. (See "General Use Precautions"). Add an agriculturally registered non-ionic surfactant as described under "Directions For Use".

Foliage Treatment (Rights-of-Way)

Use 2 to 3 gallons of Garlon 3A or 1 to 1.5 gallons Garlon 3A in a tank mix combination with 1 to 2 gallons of 2,4-D 3.8 lb amine or low volatile esters or Tordon 101 mixture, and apply in a total spray volume of 10 to 30 gallons per acre. Use the higher rates and volumes when plants are dense or under drought conditions.

Forest Management Applications

For best control from broadcast applications of Garlon* 3A herbicide, use a spray volume which will provide thorough plant coverage. Recommended spray volumes are usually 10-25 gpa by air or 10 to 100 gpa by ground. To improve spray coverage of spray volumes less than 50 gpa, add an agriculturally registered non-ionic surfactant as described under "Directions for Use". Application systems should be used to prevent hazardous drift to off-target sites. Nozzles or additives that produce larger droplets of spray may require higher spray volumes to maintain brush control.

Forest Site Preparation (not for conifer release)

Use 2 to 3 gallons of Garlon 3A and apply in a total spray volume of 10 to 30 gallons per acre or Garlon 3A at 1 to 1 1/2 gallons may be used with 1 to 2 gallons of Tordon 101 Mixture or 2,4-D 3.8 lb low volatile ester in a tank mix combination in a total spray volume of 10 to 30 gallons per acre. Use of a non-ionic agricultural surfactant is recommended for all foliar applications as described under "Directions For Use".

Note: Conifers planted sooner than one month after treatment with Garlon 3A at less than 1 1/3 gallon per acre or sooner than two months after treatment at 1 1/3 to 3 gal/acre may be injured. When tank mixtures of herbicides are used for forest site preparation, labels for all products in the mixture should be consulted and the longest recommended waiting period before planting observed.

Directed Spray Applications for Conifer Release

To release conifers from competing hardwoods such as red maple, sugar maple, striped maple, sweetgum, red and white oaks, ash, hickory, alder, birch, aspen, and pin cherry, mix 1 to 5 gallons of Garlon 3A in enough water to make 100 gallons of spray mixture. To improve spray coverage, add an agriculturally registered non-ionic surfactant as described under "Directions for Use". The spray mixture should be directed onto foliage of competitive hardwoods using knapsack or backpack sprayers with flat fan nozzles or equivalent any time after hardwoods have reached full leaf size, but before autumn coloration. The majority of treated hardwoods should be less than 6 feet in height to ensure adequate spray coverage. Care should be taken to direct spray away from contact with conifer foliage, particularly foliage of desirable pines.

Note: Spray may cause temporary damage and growth suppression where contact with conifers occurs; however, injured conifers should recover and grow normally. Over-the-top spray applications can kill pines.

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Broadcast Application for Conifer Release in the Northeastern United States

To release spruce, fir, red pine and white pine from competing hardwoods, such as red maple, sugar maple, striped maple, alder, birch (white, yellow or gray), aspen, ash, pin cherry and *Rubus* spp. and perennial and annual broadleaf weeds, use Garlon 3A at rates of 2 to 4 quarts per acre alone or plus 2,4-D amine or 2,4-D ester to provide no more than 4 pounds acid equivalent per acre from both products. Applications should be made in late summer or early fall after conifers have formed their over wintering buds and hardwoods are in full leaf and prior to autumn coloration.

Broadcast Applications for Douglas-Fir Release in the Pacific Northwest and California

To release Douglas-fir from susceptible competing vegetation such as broadleaf weeds, alder, blackberry or Scotch broom, apply Garlon 3A at 1 1/3 to 2 quarts per acre alone or in combination with 4 lb per acre of atrazine. Mix all sprays in a water carrier with a non-ionic surfactant. Applications should be made in early spring after hardwoods begin growth and before Douglas-fir bud break ("early foliar" hardwood stage) or after Douglas-fir seasonal growth has "hardened off" (set winter buds) in late summer, but while hardwoods are still actively growing. When treating after Douglas-fir bud set, apply prior to onset of autumn coloration in hardwood foliage. **Note:** Treatments applied during active Douglas-fir shoot growth (after spring bud break and prior to bud set), may cause injury to Douglas-fir trees.

Cut Surface Treatment Treatments

In rights-of-way and other non-crop areas, to control unwanted trees of hardwood species such as elm, maple, oak and conifers, apply Garlon 3A, either undiluted or diluted in a 1 to 1 ratio with water, as directed below:

With Tree Injector Method

Applications should be made by injecting 1/2 milliliter of undiluted Garlon 3A or 1 milliliter of the diluted solution through the bark at intervals of 3-4 inches between centers of the injector wound. The injections should completely surround the tree at any convenient height. **Note: No Worker Protection Standard worker entry restrictions or worker notification requirements apply when this product is injected directly into plants.**

With Hack and Squirt Method

Make cuts with a hatchet or similar equipment at intervals of 3-4 inches between centers at a convenient height around the tree trunk. Spray 1/2 milliliter of undiluted Garlon 3A or 1 ml of the diluted solution into each cut.

With Frill or Girdle Method

Make a single girdle through the bark completely around the tree at a convenient height. Wet the cut surface with undiluted or diluted solution.

Both of the above methods may be used successfully at any season except during periods of heavy sap flow of certain species - for example maples.

Stump Treatment

Spray or paint the cut surfaces of freshly cut stumps and stubs with undiluted Garlon 3A. The cambium area next to the bark is the most vital area to wet.

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Suggested Use Rates				
Application Site	Garlon 3A per 100 gallons of Water	Garlon 3A (Gallons per Acre)		
	High Volume† 100-400 gal/acre Total Spray Volume	Low Volume Broadcast†† 20-100 gal/acre Total Spray Volume		Aerial Helicopter 10-30 gal/acre Total Spray Volume
	Weeds and Brush	Weeds	Brush	Brush
	Utility & Pipeline Rights of Way	1/2-1	1/3-1 1/2	2-3
Roadsides	1/2-1	1/3-1 1/2	2-3	
Railroads	1/2-1	1/3-1 1/2	2-3	
Industrial Sites	1/2-1	1/3-1 1/2	2-3	
Forest Site Preparation	1/2-1	1/3-1 1/2	2-3	2-3††††

- † 1/4 - 1 gal may be tank mixed with 1/4 to 1/2 gal 2,4-D 3.8 amine or low volatile ester or Tordon 101 Mixture.
- †† 1/2 - 1 gal may be tank mixed with 1/2 - 1 gal 2,4-D 3.8 lb amine or low volatile ester or Tordon 101 Mixture for weed control; or 1/2 - 1 gal Garlon 3A with 1-2 gal of the aforementioned products for brush control.
- ††† 1 - 1 1/2 gal may be tank mixed with 1-2 gal 2,4-D 3.8 lb amine or low volatile ester or Tordon 101 Mixture.
- †††† 1 to 1 1/2 gal may be tank mixed with 1 to 2 gal of 2,4-D 3.8 lb low volatile ester or Tordon 101 Mixture

Christmas Tree Plantations

[Editor's note: Directions for use for weed control in Christmas tree plantations based on EPA-accepted label copy dated 01/14/94 for Grandstand (EPA Reg. No. 62719-230), which is identical in composition to Garlon 3A (Text edited for clarity).]

Garlon 3A is recommended for the control of woody plants and annual and perennial broadleaf weeds in established Christmas tree plantations. For best results, applications should be made when woody plants and weeds are actively growing. Garlon 3A does not control weeds which have not emerged at the time of application. If lower rates are used on hard-to-control woody species, resprouting may occur the year following treatment. Brush over 8 feet tall is difficult to treat efficiently using hand equipment such as backpack or knapsack sprayers. When treating large brush or trees or hard to control species such as ash, blackgum, choke cherry, elm, hazel, madrone, maples, oaks or sweetgum, and for applications made during drought conditions or in late summer when the leaves are mature, use the higher rates of Garlon 3A or use cut surface application methods. For foliar applications, apply in enough water to give uniform and complete coverage of the plants to be controlled. Applications made under drought conditions may provide less than desirable results.

Use Precautions

- Do not use on newly seeded grass until well established as indicated by vigorous growth and development of secondary root system and tillering
- Newly seeded turf (alleyways, etc.) should be mowed two or three times before any treatment with Garlon 3A.
- Do not reseed Christmas tree areas treated with Garlon 3A for a minimum of three weeks after application.
- Do not use Garlon 3A if legumes, such as clover, are present and injury cannot be tolerated.

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Spray Preparation

The recommended order of addition to the spray tank is water, drift control agent (if used), non-ionic agricultural surfactant and Garlon 3A. Continue moderate agitation while mixing and spraying. Use of a non-ionic agricultural surfactant is recommended for all applications. When using surfactants, follow use directions and precautions listed on the manufacturers' label. Use the higher recommended concentrations of surfactant in the spray mixture when applying lower spray volumes per acre.

Application

Make applications in late summer or early autumn after terminal growth of Christmas trees has hardened of, but before leaf drop of target weeds. Apply at a rate of 2 to 5 pints/acre as a foliar spray directed toward the base of Christmas trees. Use sufficient spray volume to provide uniform coverage of target plants (20 to 100 gallons per acre). **Do not apply with 2,4-D.** Application rates of Garlon 3A recommended for Christmas trees will only suppress some well established woody plants that are greater than 2 to 3 years old (see table below). Broadcast sprays may also be applied in bands between the rows of planted trees. Use spray equipment that will assure uniform coverage of the desired spray volume.

Spray solution from Garlon 3A can cause needle and branch injury to Christmas trees. To minimize injury to Christmas trees, it is recommended that sprays be directed so as to minimize contact with foliage. Blue spruce, white spruce, balsam fir and Fraser fir are less susceptible to injury, than white pine and Douglas fir.

Restriction: Apply Garlon 3A only to established Christmas trees that were planted at least one full year prior to application.

Application Rates and Species Controlled:

<u>Garlon 3A</u>		
<u>2 pints/acre</u>	<u>3 to 4 pints/acre</u>	<u>5 pints/acre</u>
<u>clover</u>	<u>bindweed, field (TG)</u>	<u>arrowwood (SDL)</u>
<u>dandelion</u>	<u>blackberry[†]</u>	<u>aspen</u>
<u>dock, curly</u>	<u>chicory (s)</u>	<u>beech (SDL)</u>
<u>lambsquarters</u>	<u>fireweed</u>	<u>birch (SDL)</u>
<u>lespedeza</u>	<u>ivy, ground</u>	<u>chinquapin</u>
<u>plantain, broadleaf</u>	<u>lettuce, wild</u>	<u>cottonwood (SDL)</u>
<u>plantain, buckhorn</u>	<u>oxalis</u>	<u>elderberry</u>
<u>ragweed, common</u>	<u>poison ivy</u>	<u>grape, wild</u>
<u>vetch</u>	<u>smartweed (TG)</u>	<u>mulberry (SDL)</u>
	<u>thistle, Canada (TG)</u>	<u>poplar (SDL)</u>
	<u>violet, wild</u>	<u>sassafras (SDL)</u>
	<u>Virginia creeper[†]</u>	<u>sumac (SDL)</u>
		<u>sycamore (SDL)</u>

(TG) Top growth control, retreatment may be necessary

(S) Suppression

(SDL) Seedlings less than 2-3 years old

[†]Use 4 pint per acre rate

Directed Applications

To control hardwoods such as red maple, sugar maple, striped maple, sweetgum, red and white oaks, ash, alder, birch, aspen, and pin cherry mix 4 to 20 fluid ounces of Garlon 3A in enough water to make 3 gallons of spray mixture. To improve coverage, add a non-ionic agricultural surfactant to the spray. This spray mixture should be directed onto foliage of competitive hardwoods using knapsack or backpack sprayers with flat fan nozzles or equivalent any time after hardwoods have reached full leaf size, but before autumn coloration (when plants are actively growing). The majority of treated hardwoods should be less than 8 feet in height to ensure adequate spray coverage.

Note: To prevent Christmas tree injury, care should be taken to direct spray away from contact with Christmas tree foliage.

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Cut Surface Treatments

When treating large brush or trees or hard to control species such as ash, blackgum, choke cherry, elm, hazel, madrone, maples, oaks or sweetgum, and for applications made during drought conditions or in late summer when the leaves are mature, use cut surface treatments. (See directions for Cut Surface Treatments in preceding section of this label.)

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1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used

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