



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JAN 13 1999

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Ms. Annette M. Kirk
Monsanto Company
600 13th Street, NW Suite 660
Washington, DC 20005

Dear Ms. Kirk:

Subject: Accord Herbicide (Amend Label Booklet)
EPA Registration No. 524-326
Your Application Dated October 21, 1998

The labeling referred to above submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable, provided you make the following changes.

1. The statements "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." must be moved from the Agricultural Use Requirements box to a position directly following the heading "Directions for Use" and following the statement "It is a violation of Federal Law... and immediately before "For any requirement specific to your State or Tribe..."
2. On the label booklet the statement "Reformulation is prohibited " must be changed to read similar to "This is an end-use product. Monsanto does not intend and has not registered it for reformulation."
3. On the container labels the statement referring to repackaging without a written agreement must be changed to read similar to "This is an end use product. Monsanto does not intend and has not registered it for reformulation. It is intended that repackaging be only in accordance with a Monsanto repackaging or toll repackaging agreement.

Please submit three (3) copies of your final printed labeling making the above changes before you release the product for shipment. A stamped copy of labeling is enclosed for your records.

Sincerely,

James A. Tompkins
James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505C)

ACCORD®
Herbicide by Monsanto

Complete Directions for Use
in Forestry and Utility Rights-of-Way

EPA Reg. No. 524-326

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS,
OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE
INJURY OR DESTRUCTION WILL RESULT.

Accord is a registered trademark of Monsanto Company.

1998-12 21002V6-5/53

Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or
using. If terms are not acceptable, return at once unopened.

REFORMULATION IS PROHIBITED. SEE CONTAINER LABEL FOR REPACKAGING
LIMITATIONS.

~~LIMIT OF WARRANTY AND LIABILITY~~

~~This Company warrants that this product conforms to the chemical
description on the label and is reasonably fit for the purposes
set forth in the Complete Directions for Use label booklet
("Directions") when used in accordance with those Directions
under the conditions described therein. NO OTHER EXPRESS WARRANTY
OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR
MERCHANTABILITY IS MADE. This warranty is also subject to the
conditions and limitations stated herein.~~

~~Buyer and all users shall promptly notify this Company of any
claims whether based in contract, negligence, strict liability,
other tort or otherwise.~~

(ACCORD 98-21 Label)
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(10/15/989/1/981/27/98)

~~Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.~~

~~THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.~~

~~Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.~~

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

HARMFUL IF INHALED.

~~Avoid breathing vapors or spray mist.~~

**ACCEPTED
with COMMENTS
In EPA Letter Dated
JAN 13 1989**

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 524-326

~~FIRST AID: IF INHALED, remove individual to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.~~

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants and shoes plus socks. 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 Recommendation

Users should:

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

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

Environmental Hazards

Do not contaminate water when disposing of equipment washwaters. Treatment of aquatic weeds can result in oxygen depletion or loss due to decomposition of dead plants. This oxygen loss can cause fish suffocation.

In case of:

SPILL or LEAK, soak up and remove to a landfill.

Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray

solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

ACTIVE INGREDIENT:

*Glyphosate, N-(phosphonomethyl)glycine, in the form of its isopropylamine salt.....	41.5%
INERT INGREDIENTS:.....	58.5%
	<u>100.0%</u>

*Contains 480 grams per litre or 4 pounds per U.S. gallon of glyphosate, N-(phosphonomethyl)glycine, in the form of its isopropylamine salt. Equivalent to 356 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any 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 4 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, are: coveralls, waterproof gloves and shoes plus socks.

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, or greenhouses.

Uses of this product in utility rights-of-way and all other utility sites are not within the scope of the Worker Protection Standard requirements. Requirements in the Agricultural Use Requirement box do not apply to utility uses. Follow all other label requirements for applications to utility sites.

For more product information, call toll free 1-800-332-3111.

Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

STORAGE: STORE ABOVE 10°F (-12°C) TO KEEP PRODUCT FROM CRYSTALLIZING.

Crystals will settle to the bottom. If allowed to crystallize, place in a warm room 68°F (20°C) for several days to redissolve and roll or shake container or recirculate in mini-bulk containers to mix well before using. For bulk containers, see container label.

DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

(ACCORD 98-2+ label)

File name 98accrd1.doc

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Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

(See the individual container labels for disposal information)

GENERAL INFORMATION

This product, a water soluble liquid, mixes readily with water and surfactant to be applied as a foliar spray for the control or destruction of most herbaceous and woody plants.

This product moves through the plant from the point of foliage contact to and into the root system. Visible effects on most herbaceous weeds occur within 7 days but on most woody plants may not occur for 30 days or more.

After any site disturbance, such as logging, mechanical brush removal or mowing, allow stump sprouts, resprouts and foliar regrowth from woody brush and perennial herbaceous weeds sufficient time to regrow before treatment.

Always use the higher recommended rates of this product and surfactant when treating dense, multicanopied sites of woody vegetation or difficult-to-control woody and herbaceous plants.

Reduced control may result when woody brush, trees and herbaceous weeds are treated under poor growing conditions caused by drought, disease or insect damage. Reduced control may result if the foliage of undesirable vegetation is covered with dust at the time of treatment.

Rainfall occurring within 6 hours after application may reduce effectiveness. Heavy rainfall within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required.

When this product comes in contact with soil (on the soil surface or as suspended soil or sediment in water) it is bound to soil particles. When used in accordance with label directions, once this product is bound it is not available for plant uptake and will not harm off-site vegetation where roots grow into the treatment area or if the soil is transported off-site. When used in accordance with label directions, the strong affinity of this

(ACCORD 98-24 label)

File name 98accrd1.doc

(10/15/989/1/981/27/98)

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product to soil particles prevents this product from leaching out of the soil profile and entering ground water. The affinity between this product and soil particles remains until this product is degraded, which is primarily a biological degradation process carried out under both aerobic and anaerobic conditions by soil microflora.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly recommended in this label. Mixing this product with herbicides or other materials not recommended in this label may result in reduced performance.

**FORESTRY SITE PREPARATION
AND UTILITY RIGHTS-OF-WAY**

This product is recommended for the control or partial control of woody brush, trees and herbaceous weeds. This product is labeled for use in forestry and utility sites. This product is also recommended for use in preparing or establishing wildlife openings within these sites and maintaining logging roads, and for side trimming along utility rights-of-way.

In forestry, this product is recommended for use in site preparation prior to planting any tree species, including Christmas trees and silvicultural nursery sites.

In utilities, this product is recommended for use along electrical power, pipeline and telephone rights-of-way, and in other utility sites associated with these rights-of-way, such as substations.

APPLICATION RATES AND TIMING

APPLICATION	ACCORD®	SPRAY VOLUME GAL/A
BROADCAST		
Aerial	2 to 10 qts/a	5 to 30
Ground	2 to 10 qts/a	10 to 60

(ACCORD 98-21 label)

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(10/15/989/1/981/27/98)

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SPRAY-TO-WET

Handgun, Backpack, 3/4 % to 2 % spray-to-wet
Mistblower by volume

LOW VOLUME DIRECTED SPRAY

Handgun, Backpack 5% to 10% by volume partial coverage*
Mistblower

*For low volume directed spray applications, coverage should be uniform with at least 50 percent of the foliage contacted. Coverage of the top one-half of the plant is important for best results.

In forestry site preparation and utility rights-of-way applications, this product requires use with a nonionic surfactant. Use a nonionic surfactant with greater than 80 percent active ingredient and labeled for use with herbicides. Use of this product without surfactant will result in reduced performance. See the "MIXING AND APPLICATION INSTRUCTION" section of this label for more information.

Mix 2 or more quarts of the nonionic surfactant per 100 gallons of spray solution (0.5 percent or more by spray volume). Use of surfactant concentrations greater than 1.5 percent by spray volume with handgun applications or 2.5 percent by spray volume with broadcast applications is not recommended.

Use higher rates of this product within the recommended range for control or partial control of woody brush, trees and hard-to-control perennial herbaceous weeds. For best results, apply to actively growing woody brush and trees after full leaf expansion and before fall color and leaf drop. Increase rates within the recommended range for control of perennial herbaceous weeds any time after emergence and before seedheads, flowers or berries appear.

Use the lower rates of this product within the recommended range for control of annual herbaceous weeds and actively growing perennial herbaceous weeds after seedheads, flowers or berries appear. Apply to the foliage of actively growing annual herbaceous weeds any time after emergence.

This product has no herbicidal or residual activity in the soil. Where repeat applications are necessary, do not exceed 10.6 quarts of this product per acre per year.

(ACCORD 98-21 label)

File name 98accrd1.doc

(10/15/989/1/981/27/98)

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TANK MIXTURES

Tank mixtures of this product may be used to increase the spectrum of vegetation controlled. When tank mixing, read and carefully observe the label claims, cautionary statements and all information on the labels of both products used. Use according to the most restrictive precautionary statements for each product in the mixture. Any recommended rate of this product may be used in a tank mix.

NOTE: For forestry site preparation, make sure the tank-mix product is approved for use prior to planting the desired species. Observe planting interval restrictions. For side trimming treatments in utility rights-of-way, tank mixtures with Arsenal™ 2WSL are not recommended. For side trimming treatments, it is recommended that this product be used alone as recommended, or as a tank mixture with Garlon™ 4.

PRODUCT	BROADCAST RATE	USE SITES
Arsenal Applicators Concentrate**	2 to 16 fl oz /a	Forestry site preparation
Chopper™	4 to 32 oz/a	Forestry site preparation
Escort™**	½ to 3 ½ oz/a	Forestry site preparation
Oust™	1 to 4 oz/a	Forestry site preparation, Utility sites
Garlon 3A*, Garlon 4	1 to 4 qts/a	Forestry site preparation, Utility sites
Arsenal 2WSL**	4 2 to 32 fl oz/a	Utility sites

PRODUCT	SPRAY-TO-WET RATES	USE SITES
Arsenal Applicators Concentrate	1/32 % to 1/2 % by volume	Forestry site preparation
Arsenal 2WSL	1/ 16 32 % to 1/2 % by volume	Utility sites

PRODUCT	LOW VOLUME DIRECTED SPRAY RATES	USE SITES
Arsenal Applicators Concentrate	1/8% to 1/2% by volume	Forestry site preparation
Arsenal 2WSL	1/8% to 1/2% by volume	Utility sites

* Ensure that Garlon 3A is thoroughly mixed with water according to label directions before adding this product. Have spray mixture agitating at the time this product is added to avoid spray compatibility problems.

**Arsenal and Escort are not registered in the state of California.

For control of herbaceous weeds, use the lower recommended tank mixture rates. For control of dense stands or tough-to-control woody brush and trees, use the higher recommended rates.

~~Arsenal is a trademark of American Cyanamid Company.
Oust is a trademark of E. I. du Pont de Nemours and Company.
Garlon is a trademark of DowElanco Products Company.~~

FORESTRY CONIFER AND HARDWOOD RELEASE

DIRECTED SPRAY AND SELECTIVE EQUIPMENT

This product may be applied as a directed spray or by using selective equipment in forestry conifer and hardwood sites, including Christmas tree plantations and silvicultural nurseries. Mix 2 to 6 quarts of a nonionic surfactant per 100 gallons of spray solution (0.5 to 1.5 percent by spray volume) for all spray applications. Use a surfactant with greater than 80 percent active ingredient.

In hardwood plantations, tank mixtures with Oust may be used. In pine plantations, tank mixtures with Garlon 4 or Arsenal AC may be used. Comply with all site restrictions, forestry species limitations and precautions on the tank mix product label.

Avoid contact of spray, drift, mist or drips with foliage, green bark or non-woody surface roots of desirable species.

See all sections in the "APPLICATION EQUIPMENT AND TECHNIQUES" portion of this label for specific equipment recommendations and precautions.

For spray-to-wet applications, use a 2 percent spray solution for the control of undesirable woody brush and trees. To control herbaceous weeds, use a 1 to 2 percent solution.

For low volume directed spray applications, use a 5 to 10 percent spray solution. Coverage should be uniform with at least 50 percent of the foliage contacted. Coverage of the top one-half of the unwanted vegetation is important.

For equipment calibrated for broadcast applications, use 2 to 10 quarts of this product per acre. Apply in 10 to 60 gallons of clean water per acre. Shielded application equipment may be used to avoid contact of the spray solution with desirable plants. Shields should be adjusted to prevent spray contact with the foliage or green bark of desirable vegetation.

Wiper application equipment may be used. See the SELECTIVE EQUIPMENT portion of this label for equipment and rate recommendations.

BROADCAST SPRAY

Except where specifically recommended below, use only where conifers have been established for more than one year.

APPLICATION MUST BE MADE AFTER FORMATION OF FINAL CONIFER RESTING BUDS IN THE FALL OR PRIOR TO INITIAL BUD SWELLING IN THE SPRING.

Injury may occur to conifers treated for release, especially where spray patterns overlap or the higher rates are applied. Damage can be accentuated if applications are made when conifers are actively growing, or are under stress from drought, flood water, improper planting, insects, animal damage or diseases.

This product may require use with a surfactant. Unless otherwise recommended in this section of this label, use Entry™ II surfactant at 10 to 30 fluid ounces per acre. Follow the instructions under the "MIXING" portion of the "MIXING AND APPLICATION INSTRUCTIONS" section of this label.

(ACCORD 98-2+ label)

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(10/15/989/1/981/27/98)

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For release of the following conifer species outside the Southeastern United States:

Douglas fir

Pseudotsuga menziesii

Fir

Abies spp.

Hemlock**

Tsuga spp.

Pines*

Pinus spp.

Redwood, California**

Sequoia spp.

Spruce

Picea spp.

* Includes all species except loblolly pine, longleaf pine, shortleaf pine or slash pine.

**Use of a surfactant is not recommended for release of hemlock species or California redwood. In mixed conifer stands, injury to these species may result if a surfactant is used.

Apply 1 to 2 quarts of this product per acre as a broadcast spray.

NOTE: For release of Douglas fir with this product or recommended tank mixtures of this product, Entry II or a nonionic surfactant recommended for over-the-top foliar sprays may be used. To avoid possible conifer injury, Entry II rates should not exceed 20 fluid ounces per acre at elevations above 1500 feet, or 10 fluid ounces per acre in the coastal range or at elevations below 1500 feet in Washington and Oregon. Nonionic surfactants may be used at 2 fluid ounces per acre at elevations above 1500 feet, or 1 fluid ounce per acre in the coastal range or at elevations below 1500 feet. Use of surfactant rates exceeding those listed above may result in unacceptable conifer injury and are not

(ACCORD 98-24 label)

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recommended. Ensure that the nonionic surfactant has been adequately tested for Douglas fir safety before use.

In Maine, up to 3 quarts per acre of this product or a tank mix with 1 oz/a of Arsenal Applicators Concentrate may be used for the control of difficult species.

To release Douglas fir, and pine and spruce species at the end of the first growing season (except in California), apply 1 to 1.5 quarts of this product per acre. Ensure that the conifers are well hardened off.

OUST TANK MIXTURES - To release jack pine, white pine and white spruce, apply 1 to 2 quarts of this product with 1 to 3 ounces (1 to 1.5 for white pine) of Oust per acre. Make applications to actively growing weeds as a broadcast spray over the top of established conifers. Applications at these rates should be made after formation of conifer resting buds in the late summer or fall.

ARSENAL APPLICATORS CONCENTRATE TANK MIXTURES - This product may be tank mixed with Arsenal Applicators Concentrate for release of Douglas fir. Use 1 to 1 1/2 quarts of this product tank mixed with 2 to 6 fluid ounces of Arsenal per acre. For release of balsam fir and red spruce, apply a mixture of 2 quarts of this product and 1 to 2 1/2 fluid ounces of Arsenal Applicators Concentrate per acre.

For release of the following conifer species in the Southeastern United States:

Loblolly pine

Pinus taeda

Eastern white pine

Pinus strobus

Shortleaf pine

Pinus echinata

Slash pine

Pinus elliottii

Virginia pine

(ACCORD 98-24_label)

File name 98accrd1.doc

(10/15/989/1/981/27/98)

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Pinus virginiana

Longleaf pine

Pinus palustris

Apply 1 1/2 to 2 1/2 quarts of this product per acre as a broadcast spray during late summer or early fall after the conifers have hardened off. For applications at the end of the first growing season, use 1 quart per acre of this product alone or in a recommended tank mixture.

ARSENAL APPLICATORS CONCENTRATE TANK MIXTURES - Apply 1 to 2 quarts of this product with 2 to 16 fluid ounces of Arsenal Applicators Concentrate per acre as a broadcast spray for conifer release. Use only on conifer species that are labeled for over-the-top sprays for both products. Use the higher recommended rates for dense, tough-to-control woody brush and trees.

Read and carefully observe the label claims, cautionary statements and all information on the labels of each product used in these tank mixtures. Use according to the most restrictive precautionary statements for each product in the mixture.

Entry is a trademark of Monsanto Company.

HERBACEOUS RELEASE

When applied as directed, this product plus listed residual herbicides provides postemergence control of the annual weeds and control or suppression of the perennial weeds listed in this label, and residual control of the weeds listed in the residual herbicide label. Make applications to actively growing weeds as a broadcast spray over the top of labeled conifers.

Oust tank mixtures - To release loblolly pines, apply 16 to 24 fluid ounces of this product, plus 2 to 4 ounces of Oust per acre. To release slash pines, apply 12 to 16 fluid ounces of this product, plus 2 to 4 ounces of Oust per acre.

Mix up to 3.2 fluid ounces per acre of Entry II with the recommended rate of this product plus Oust. Applications can be made over newly planted pines after the emergence of herbaceous weeds in the spring or early summer. Best results are obtained from applications made in May and June.

(ACCORD 98-24 label)

File name 98accrd1.doc

(10/15/989/1/981/27/98)

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Weed control may be reduced if water volumes exceed 25 gallons per acre for these treatments.

Atrazine tank mixtures - To release Douglas fir, apply 1 quart of this product, plus 4 pounds a.i. of atrazine per acre. Apply only over Douglas fir that has been established for at least one full growing season. Apply in the early Spring, usually mid-March through early April. Injury will occur if applications are made after bud swell in the Spring. Do not add surfactant to this mix for this use.

Always read and follow the manufacturer's label recommendations for all herbicides and surfactants used.

WETLAND SITES

This product may be used in and around water (aquatic areas) and wetlands found in forestry and in power, telephone and pipeline rights-of-way sites, including where these sites are adjacent to or surrounding domestic water supply reservoirs, supply streams, lakes and ponds. Read and observe the following before making applications in and around water.

Consult local public water control authorities before applying this product in and around public water. Permits may be required to treat in such areas.

There is no restriction on the use of treated water for irrigation, recreation or domestic purposes.

NOTE: Do not apply this product directly to water within 1/2 mile up-stream of an active potable water intake in flowing water (i.e., river, stream, etc.) or within 1/2 mile of an active potable water intake in a standing body of water such as lake, pond or reservoir. To make aquatic applications around and within 1/2 mile of active potable water intakes, the water intake must be turned off for a minimum period of 48 hours after the application. These aquatic applications may be made ONLY in those cases where there are alternative water sources or holding ponds which would permit the turning off of an active potable water intake for a minimum period of 48 hours after the applications. This restriction does not apply to

(ACCORD 98-24 Label)

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intermittent inadvertent overspray of water in terrestrial use sites.

Do not spray open bodies of water where woody brush, trees and herbaceous weeds do not exist. The maximum application rate of 5 quarts per acre must not be exceeded in a single over-water broadcast application except as follows, where any recommended rate may be applied:

- Stream crossings in utility rights-of-way
- Where applications will result in less than 20 percent of the total water area being treated.

**MIXING AND APPLICATION
INSTRUCTIONS**

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES. HANDGUN APPLICATIONS SHOULD BE PROPERLY DIRECTED TO AVOID SPRAYING DESIRABLE PLANTS. **NOTE:** REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS WATER FROM PONDS AND UNLINED DITCHES.

MIXING

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water while adding the required amount of this product (see the "DIRECTIONS FOR USE" and "WEEDS CONTROLLED" sections of this label). For tank mixtures, add the tank-mix product before adding this product. If tank mixing with Garlon 3A, ensure that the Garlon 3A is well mixed with at least 75 percent of the total spray volume before adding this product to avoid incompatibility. Near the end of the filling process, add the required surfactant and mix well. Maintain an air break between the filling hose and the spray solution and remove the hose from the tank immediately after filling to avoid siphoning back into the water source. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved antifoam or defoaming agent.

APPLICATION EQUIPMENT
AND TECHNIQUES

ATTENTION

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of plant or crop injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow spray drift to occur. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

NOTE: Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. When not in use, keep container closed to prevent spills and contamination.

■ AERIAL EQUIPMENT ■

This product is recommended for application by helicopter only in forestry sites and utility rights-of-way. Use the recommended rates of this product and surfactant in 5 to 30 gallons of spray solution per acre as a broadcast spray.

IN CALIFORNIA, AERIAL APPLICATION MAY ONLY BE MADE IN NONRESIDENTIAL, FORESTRY SITES AND CHAPARRAL AREAS.

AVOID DRIFT - DO NOT APPLY DURING LOW-LEVEL INVERSION CONDITIONS, WHEN WINDS ARE GUSTY, OR UNDER ANY OTHER CONDITION WHICH ~~WILL~~ ALLOW FAVORS DRIFT. ~~DRIFT IS LIKELY TO WILL~~ CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

(ACCORD 98-2+ label)

File name 98accrd1.doc

(10/15/989/1/981/27;98)

Coarse sprays are less likely to drift; therefore, it is recommended not to use nozzles or nozzle configurations which dispense spray as fine droplets.

Drift control additives may be used for forestry site preparation and utility rights-of-way applications. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label. The use of a drift control agent for conifer and herbaceous release applications may result in conifer injury and is not recommended.

PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion. To prevent corrosion of exposed parts, thoroughly wash aircraft after each day of spraying to remove residues of this product accumulated during spraying or from spills. Landing gear are most susceptible.

■ **GROUND BROADCAST EQUIPMENT** ■

This product is recommended for broadcast applications using suitable ground equipment in forestry sites, utility sites and utility rights-of-way. Use the recommended rates of this product plus surfactant in 10 to 460 gallons of clean water per acre as a broadcast spray. Check for even spray distribution throughout the spray pattern.

■ **BACKPACK, HANDGUN OR MISTBLOWER EQUIPMENT** ■

This product is recommended for application through backpack, handgun or hand-held mistblower* equipment. For spray-to-wet applications, coverage should be uniform and complete, but not to the point of runoff.

This product can be used for low volume directed sprays for spot treatment of trees and brush. It is most effective in areas where there is a low density of undesirable trees or brush. If a straight stream nozzle is used, start the application at the top of the targeted vegetation and spray from top to bottom in a

lateral zigzag motion. For flat fan and cone nozzles and with mistblowers, mist the application over the foliage of the targeted vegetation. Small, open branched trees need only be treated from one side. If the foliage is thick or there are multiple root sprouts, applications must be made from several sides to ensure adequate spray coverage.

It is suggested that the recommended amount of this product and surfactant be mixed in a larger container and then added to the sprayer.

*This product is not registered in California or Arizona for use in mistblowers.

■ **SELECTIVE EQUIPMENT** ■

This product may be applied through shielded sprayers or wiper application equipment. This equipment may be used to selectively control undesirable vegetation without harming desirable vegetation.

Shielded sprayers direct the herbicide solution onto weeds while shielding desirable vegetation from the spray solution. Any recommended rate or tank mixture of this product may be used employing this equipment.

Wiper applicators physically wipe product directly onto undesirable vegetation. Care should be taken to avoid wiping desirable vegetation. Use a 33 to 100 percent solution of this product, diluted in water for wiper applications. Use a 33 percent solution for wick or gravity feed systems. Higher concentrations may be used in pressurized systems that are capable of handling thicker solutions. Addition of a nonionic surfactant at a rate of 10 percent by volume of total herbicide solution is recommended.

WEEDS CONTROLLED

When applied as recommended under the conditions described, this product CONTROLS, PARTIALLY CONTROLS or SUPPRESSES most woody brush, trees and herbaceous weeds, some of which are listed below.

WOODY BRUSH AND TREES

Alder*Alnus spp.***Ash***Fraxinus spp.***Aspen, quaking***Populus tremuloides***Bearmatclover (Bearelovermat)***Chamaebatia foliolosa***Beech***Fagus grandifolia***Birch***Betula spp.***Blackberry***Rubus spp.***Blackgum***Nyssa spp.***Bracken***Pteridium spp.***Broom:****French***Cytisus monspessulanus***Scotch***Cytisus scoparius***Buckwheat, California***Eriogonum fasciculatum***Cascara***Rhamnus purshiana***Castor bean***Ricinis communis***Catsclaw**

(ACCORD 98-24 label)

File name 98accrd1.doc(10/15/989/1/981/27/98)203432

Acacia greggi

Ceanothus

Ceanothus spp.

Chamise

Adenostoma fasciculatum

Cherry:

Bitter

Prunus emarginata

Black

Prunus serotina

Pin

Prunus pensylvanica

Cottonwood, eastern

Populus deltoides

Coyote brush

Baccharis consanguinea

Creeper, Virginia

Parthenocissus quinquefolia

Cypress, swamp, bald

Taxodium distichum

Deerweed

Lotus scoparius

Dewberry

Rubus trivialis

Dogwood

Cornus spp.

Elderberry

Sambucus spp.

Elm

Ulmus spp.

(ACCORD 98-24_label)

File name 98accrd1.doc

(10/15/989/1/981/27/98)

213432

Eucalyptus, bluegum
Eucalyptus globulus

Gallberry
Ilex glabra

Hackberry, western
Celtis occidentalis

Hasardia
Haplopappus squamosus

Hawthorn
Crataegus spp.

Hazel
Corylus spp.

Hickory
Carya spp.

~~Holly, Florida, Brazilian Peppertree~~
~~*Schinus terebinthifolius*~~

Honeysuckle
Lonicera spp.

Hornbeam, American
Carpinus caroliniana

Huckleberry
Vaccinium spp.

Kudzu
Pueraria lobata

Locust, black
Robina pseudoacacia

Madrone
Arbutus menziesii

Magnolia, sweetbay

(ACCORD 98-24 label)
File name 98accrd1.doc

223432

(10/15/989/1/981/27/98)

Magnolia virginiana

Manzanita

Arctostaphylos spp.

Maple

Acer spp.

Monkey Flower

Mimulus guttatus

Oak

Quercus spp.

Orange, Osage

Maclura pomifera

Peppertree, Brazilian (Florida holly)

Schinus terebinthifolius

Persimmon

Diospyros spp.

Pine

Pinus spp.

Poison Ivy

Rhus radicans

Poison Oak

Rhus toxicodendron

Poplar, yellow

Liriodendron tulipifera

Prunus

Prunus spp.

Raspberry

Rubus spp.

Redbud, eastern

Cercis canadensis

(ACCORD 98-21_label)

File name 98accrd1.doc

(10/15/989/1/981/27/98)

233432

Redcedar, eastern*Juniperus virginiana***Rose, multiflora***Rosa multiflora***Sage, black***Salvia mellifera***Sagebrush, California***Artemisia californica***Salmonberry***Rubus spectabilis***Saltbush; Sea myrtle***Baccharis halimifolia***Saltcedar***Tamarix spp.***Sassafras***Sassafras albidum***Sourwood***Oxydendrum arboreum***Sumac, laurel, poison, smooth, sugarbush, winged***Rhus vernix spp.***Sweetgum***Liquidambar styraciflua***Swordfern***Polystichum munitum***Tallowtree, Chinese***Sapium sebiferum***Tan Oak***Lithocarpus densiflorus***Thimbleberry***Rubus parviflorus*

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File name 98accrd1.doc(10/15/989/1/981/27/98)243432

Tobacco, tree
Nicotiana glauca

Toyon
Heteromeles arbutifolia

Trumpet creeper
Campsis radicans

Waxmyrtle, southern
Myrica cerifera

Willow
Salix spp.

Yerbasanta, California
Eriodictyon californicum

HERBACEOUS WEEDS

Bahiagrass
Paspalum notatum

Balsamapple
Momordica charantia

Barnyardgrass
Echinochloa crus-galli

Bassia, fivehook
Bassia hyssopifolia

Bermudagrass
Cynodon dactylon

Bindweed, field
Convolvulus arvensis

Bluegrass, Kentucky
Poa pratensis

(ACCORD 98-24 label)
File name 98accrd1.doc

253432

(10/15/989/1/981/27/98)

Brackenfern
Pteridium aquilinum

Brome
Brome spp.

Bromegrass, smooth
Bromus inermis

Broomsedge
Andropogon spp.

Buttercup
Ranunculus spp.

Cattail
Typha spp.

Cheat
Bromus secalinus

Cheeseweed
Malva parviflora

Chickweed, mouseear
Cerastium vulgatum

Clover, red
Trifolium pratense

Clover, white
Trifolium repens

Cocklebur
Xanthium strumarium

Cogongrass
Imperata cylindrica

Crabgrass
Digitaria spp.

Dallasgrass

Paspalum dilatatum

Dock, curly
Rumex crispus

Dwarf dandelion
Krigia cespitosa

False flax, small seed
Camelina microcarpa

Fescue
Festuca spp.

Fiddleneck
Amsinckia spp.

Flaxleaf fleabane
Conyza bonariensis

Fleabane
Erigeron spp.

Foxtail
Setaria spp.

Groundsel, common
Senecio vulgaris

Guineagrass
Panicum maximum

Horsenettle
Solanum carolinense

Horseweed/Marestail
Conyza canadensis

Ivy, German, cape
Senecio mikanioides

Johnsongrass

(ACCORD 98-24 label)
File name 98accrd1.doc

273432

(10/15/989/1/981/27/98)

Sorghum halepense

Kikuyugrass

Pennisetum clandestinum

Knapweed, Russian

Centaurea repens

Kochia

Kochia scoparia

Lambsquarters, common

Chenopodium album

Lespedeza: common, sericea

Lespedeza striata

Lespedeza cuneata

Lettuce, prickly

Lactuca serriola

Morningglory

Ipomoea spp.

Muhly, wirestem

Muhlenbergia frondosa

Mullein, common

Verbascum thapsus

Mustard, blue

Chorispora tenella

Mustard, tansy

Descurainia pinnata

Mustard, tumble

Sisymbrium altissimum

Mustard, wild

Sinapis arvensis

Napiergrass

Pennisetum purpureum

(ACCORD 98-24_label)

File name 98accrd1.doc

(10/15/989/1/981/27/98)

283432

Nightshade, silverleaf
Solanum elaeagnifolium

Nutsedge: purple, yellow
Cyperus rotundus
Cyperus esculentus

Oats, wild
Avena fatua

Orchardgrass
Dactylis glomerata

Panicum
Panicum spp.

Pampasgrass
Cortaderia jubata

Pennycress, field
Thlaspi arvense

Pepperweed, perennial
Lepidium latifolium

Phragmites
Phragmites spp.

Pigweed, redroot
Amaranthus retroflexus

Pigweed, smooth
Amaranthus hybridus

Quackgrass
Agropyron repens

Ragweed, common
Ambrosia artemisiifolia

Ragweed, giant
Ambrosia trifida

(ACCORD 98-24 label)
File name 98accrd1.doc

293432

(10/15/989/1/981/27/98)

Reed, giant
Arundo donax

Ryegrass, perennial
Lolium perenne

Salteedar
~~*Tamarix spp.*~~

Sandbur, field
Cenchrus spp.

Shepherd's-purse
Capsella bursa-pastoris

Signalgrass, broadleaf
Brachiaria platyphylla

Smartweed, Pennsylvania
Polygonum pensylvanicum

Sowthistle, annual
Sonchus oleraceus

Spanishneedles
Bidens bipinnata

Spurry, umbrella
Holosteum umbellatum

Starthistle, yellow
Centaurea solstitialis

Stinkgrass
Eragrostis cilianensis

Thistle, Canada
Cirsium arvense

Thistle, Russian
Salsola kali

Torpedograss
Panicum repens

Vaseygrass

Paaspalum urvillei

Velvetgrass

Holcus spp.

Witchgrass

Panicum capillare

INJECTION AND CUT STUMP APPLICATIONS

Woody brush and trees may be controlled using injection or cut stump applications of this product in forestry and utility right-of-way sites.

INJECTION APPLICATIONS

Apply the equivalent of 1 ml of this product per each 2 inches of trunk diameter. This is best achieved by applying a 25 to 100 percent ~~concentration~~ solution of this material either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff to occur from frill or cut areas in species that exude sap freely after frills or cutting. In these species, make frill or cut at an oblique angle so as to produce a cupping effect and use undiluted material. For best results, avoid applications during peak sap flow in the Spring.

CUT STUMP TREATMENTS

Woody vegetation may be controlled by treating freshly cut stumps of trees and resprouts with this product. Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut vegetation close to the soil surface. **Apply a 50 to 100 percent solution of this product to the freshly cut surface immediately after cutting.** Delays in application may result in reduced performance. For best results, avoid applications during peak sap flow in the Spring.

When used according to directions for cut stump application, this product will CONTROL, PARTIALLY CONTROL or SUPPRESS most woody brush and tree species, some of which are listed below:

Alder

Alnus spp.

Coyotebrush

Baccharis consanguinea

Dogwood

Cornus spp.

Eucalyptus

Eucalyptus spp.

Hickory

Carya spp.

Madrone

Arbutus menziesii

Maple

Acer spp.

Oak

Quercus spp.

Poplar

Populus spp.

Saltcedar

Tamarisk spp.

Sweetgum

Liquidambar styraciflua

Sycamore

Platanus occidentalis

Tan Oak

Lithocarpus densiflorus

(ACCORD 98-21_label)

File name 98accrdi.doc

(10/15/989/1/981/27/98)

323432

Willow
Salix spp.

LIMIT OF WARRANTY AND LIABILITY

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