

Acceptance stamp on last page

33560-21

05/25/2000

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Mr. Vernell Stornes
Pro-Serve, Inc.
400 East Brooks Road
Memphis, TN 38109

MAY 25 2000

Dear Mr. Stornes:

Subject: PRONONE® 10G Granular Herbicide
EPA Registration Number 33560-21
Application Dated April 18, 2000 and Letter
Dated April 18, 2000; Request to Amend
Registration by Adding Section on Rangeland
Use

The proposed labeling has been reviewed and found acceptable under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, provided that you:

1. Revise the "Brush Control Rangeland" section, "Use Precautions/Rangeland, 6." by revising the statement to read as follows:
 - "6. Do not cut treated vegetation for forage or hay, nor graze domestic animals on treated areas until 60 days after application."
2. Submit one copy of the revised labeling before you release this pesticide product for shipment under the revised labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA, section 6(e). Your release for shipment under this labeling constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Sincerely yours,

Eugene M. Wilson
for Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

Enclosure

PRONONE® 10G

Granular Herbicide

<u>Active Ingredient</u>	<u>By Weight</u>
Hexazinone	
3-cyclohexyl-6-(dimethylamino) -1-methyl -1,3,5-triazine-2,4(1H,3H)-dione.....	10%
<u>Inert Ingredients</u>	90%
TOTAL	100%

50 pounds net weight

EPA Reg. No. 33560-21 EPA Est. No. 33560-TN-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF

PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

AND DOMESTIC ANIMALS

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

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

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Shoes plus socks.

Protective eyewear.

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.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or 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.

The active ingredient, hexazinone, in this product is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

GENERAL INFORMATION

PRONONE 10G Granular Herbicide is a special granular product to be distributed in a broadcast pattern on the soil surface, or applied by hand to individual plant stems, in non-cropland areas for control of undesirable woody and herbaceous plants. Rainfall dissolves the chemical (hexazinone) from the granules and moves the herbicide into the root zone where it is absorbed during periods of active plant growth.

Symptoms of herbicidal activity generally appear within 3 to 4 weeks for herbaceous plants and 4 to 8 weeks for woody plants, after sufficient rainfall has carried the herbicide into the root zone. Defoliation and subsequent refoliation may occur, but susceptible plants are killed.

Thoroughly clean all traces of PRONONE 10G Granular Herbicide from application equipment immediately after use.

APPLICATION INFORMATION

Apply the granules by appropriate ground or aerial equipment. Calibrate the equipment to distribute the granules uniformly over the area to be treated. Apply before or during the period of active growth, when rainfall can be expected to activate the chemical in the soil. Do not apply to frozen soil, or to water saturated soils when rainfall is expected within 24 hours. Distribution across treatment swath must be uniform.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Pro-Serve's PRONONE 10G should be used only in accordance with recommendations on this label.

Pro-Serve, Inc. will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by Pro-Serve, Inc. User assumes all risk associated with such non-recommended use.

The correct use rates for use site and geographical area, specified on the label and application directions must be followed to minimize potential for hexazinone movement into ground water. Consult with your state pesticide lead agency for information regarding soil permeability, aquifer vulnerability, and best management practices for your area.

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 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involved contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

FORESTRY

EAST OF THE ROCKY MOUNTAINS

SITE PREPARATION AND CONIFER RELEASE

PRONONE 10G is recommended for site preparation and conifer release in areas of greater than 20 inches of annual rainfall east of the Rocky Mountains where the following species of pine are grown:

- Loblolly Pine Shortleaf Pine
- Longleaf Pine Slash Pine
- Virginia Pine Red Pine
- White Spruce (site prep. only)

APPLICATION TIMING

For best results, apply in spring when weeds and woody plants (brush) are actively growing, after the danger of a killing frost has passed (for target species) and when sufficient rainfall is expected.

USE RATES

Dosages to be used for use sites on this label are given in Table 1 below. Where a range of dosage is given, use the high dosage for control of plants that are listed as being only partially controlled, or when long term weed control and woody plant (brush) control is desired.

Table 1. Pounds of PRONONE 10G per acre for control of listed herbaceous weeds and woody plants (brush) for listed use sites.

Soil Texture	Herbaceous Weed Control		Woody Plant (Brush) Control	
	New Plantation	Estab. Plantation	Estab. Plantation	Site Prep
COARSE Sand, Loamy Sand, Sandy Loam,	5-7.5	7.5-10	8-15	10-30
Loam, Sandy Clay, Siltloam	10	10-12.5	15-22	25-30
FINE Clay Loam, Sandy Clay Silt				
Clay Loam	10	10-12.5	25-30	30-40
Silt, Silt Clay, Clay	10-12.5	12.5-15	25-30	30-40

PLANTS CONTROLLED

HERBACEOUS PLANTS

- Annual Bluegrass
- Asters
- Barnyardgrass
- Bentgrass
- Bromegrass
- Canada Thistle*
- Catsear (false dandelion)*
- Common Groundsel
- Crabgrass*
- Curly Dock*
- Dandelion*
- Elksedge
- Fescue*
- Fireweed (willowweed)*
- Fleabane
- Foxtail
- Goldenrod*
- Heath Aster*
- Horseweed*
- Orchardgrass*
- Oxeye Daisy
- Pennsylvania Smartweed*
- Quackgrass*
- Ryegrass*
- Squawcarpet
- Velvetgrass
- Wild Carrot

*Partial control; use higher rates of the range for soil textures indicated above.

WOODY PLANTS (BRUSH)

- American Elder
- Ashes (white, green)
- Aspen (big tooth, trembling)
- Balsam Poplar
- Birch
- Black Cherry
- Blackgum
- Boxelder*
- Blackberry
- Cherry*
- Choke berry
- Dewberry
- Eastern Red Cedar
- Elm
- Flowering Dogberry*
- Hawthorne
- Hazel
- Hickory*
- Honeysuckle
- Hornbeam
- Mulberry
- Multiflora Rose
- Norway Maple**
- Post Oak
- Raspberry
- Red Maple*
- Red Oak
- Russian olive
- Sourwood
- Southern Oak
- Sumac
- Sweetgum
- Turkey Oak
- Water Oak
- White Oak
- Wild Plum
- Willow
- Whitehorn

*Partial control; use higher rates of the range for soil textures indicated above.

**Controlled using individual stem application.

USE PRECAUTIONS

1. Do not apply to seedbeds or ornamental conifer plantings.
2. Do not use on pine stands that show poor vigor because of insects, disease, or winter injury, or show symptoms of other stress conditions or if heavy rains occur soon after application as injury may occur.
3. Do not use on poorly drained soils.
4. Do not graze domestic animals on treated area within 30 days after treatment.

HERBACEOUS WEED CONTROL

1. Do not use on sites where 10% conifer mortality cannot be tolerated. Usually some mortality of young conifers can be expected with this treatment.
2. Do not use rates in excess of those specified for soil texture.
3. Do not use on Jack Pine, as it is not tolerant to PRONONE 10G.
4. Do not use on gravelly or rocky soils, exposed subsoil's, clay knobs, sand or sandy soil with 85% or more sand. Do not use on any soil containing less than 1% organic matter; do not use on loamy sand with less than 2% organic matter.
5. *First Year Application:* Do not apply to transplant stock less than 2 years old (2-0) or Loblolly Pine less than 1 year old (1-0). Allow at least two months after transplanting before applying PRONONE 10G, and then apply only if rainfall has settled the soil around the base of the transplant. Do not use on areas planted with containerized stock or areas which have been ripped or similarly treated. Treatment may be made pre or post planting.

WOODY PLANT (BRUSH) CONTROL

1. Do not apply PRONONE 10G to young conifers that are under stress. Established conifer saplings (5 years or more) are usually not injured at recommended rates, while herbaceous weeds and competing susceptible brush are controlled or suppressed.

SITE PREPARATION

1. Do not burn until residual stand has completely defoliated at least twice, allowing for sufficient root uptake of PRONONE 10G, usually 60-90 days after rainfall.

WEST OF THE ROCKY MOUNTAINS

SITE PREPARATION AND CONIFER RELEASE

PRONONE 10G is recommended for site preparation and conifer release where the following species are grown:

- | | |
|-------------|----------------|
| Douglas Fir | Ponderosa Pine |
| Grand Fir | Jeffrey Pine |
| Noble Fir | Sitka Spruce |
| White Fir | |

APPLICATION TIMING

West of Cascades (and other areas of high spring rainfall) For best results, apply in spring when weeds and brush are actively growing.

East of Cascades (and other areas of low spring rainfall) For best results, apply in the fall before soil freezes or in the spring in anticipation of rainfall. Weed (brush) control from spring applications will be dependent upon sufficient rainfall following treatment to activate PRONONE 10G. Spring applications should be made after snow cover melts.

USE RATES

Dosages to be used for use sites on this label are given in Table 2 below. Where a range of dosage is given use the high dosage for control of plants that are listed as being only partially controlled, or when long term weed and woody plant (brush) control is desired.

Table 2. Pounds of PRONONE 10G per acre for control of listed herbaceous weeds and woody plants (brush) for listed use sites.

Soil Texture	Herbaceous Weed Control		Woody Plant (brush) Control**
	Pre Plant	Post Plant	Site Preparation & Conifer Release
COARSE Sand, Loamy Sand, Sandy Loam, Loam, Sandy Clay Siltloam		10 - 15 lbs.*	15 - 22 lbs.
FINE Clay Loam, Sandy Clay, Silt Clay Loam Silt, Silt Clay, Clay		15 - 20 lbs.*	22 - 30 lbs.

*For band applications, use proportionately less. For example, use half the broadcast rate when treating a 3 foot band where row spacing is 6 feet.

** Where either Ponderosa Pine or Jeffrey Pine is the primary coniferous species.

On first year plantations, apply PRONONE 10G (either pre-plant or post-plant) to transplant stock that is 2 years old (2-0) or more, (1 year old (1-0) for Ponderosa and Jeffrey Pine).

When applying PRONONE 10G after transplanting, wait until rainfall has settled the soil around the base of the transplants before making the treatment.

For herbaceous weed control, moisture is necessary to activate PRONONE 10G. Best results are obtained when weeds are less than 2 inches in height or diameter, soil is moist at time of application and half to one inch of rainfall occurs within 2 weeks after application.

For best results for woody plant (brush) control, application should be made to brush seedlings or sprouts when less than 18 inches in height or diameter. Applications may be made in the fall before the soil freezes or in the spring. Fall applications generally provide better results.

Because the effect of PRONONE 10G on conifers varies with soils, uniformity of application and environmental conditions, it is suggested that foresters limit their first use to small areas.

PLANTS CONTROLLED

HERBACEOUS PLANTS

Annual Bluegrass	Fleabane
Asters	Foxtail
Barnyardgrass	Goldenrod*
Bentgrass	Heath Aster*
Bromegrass	Horseweed*
Canada Thistle*	Orchardgrass*
Catsear (false dandelion)*	Oxeye Daisy
Common Groundsel	Pennsylvania Smartweed*
Crabgrass*	Quackgrass*
Curly Dock*	Ryegrass*
Dandelion*	Fireweed (<i>Willowweed</i>)*
Elksedge	Velvetgrass
Fescue*	Wild Carrot

*Partial control; use higher rates for soil textures indicated above.

WOODY PLANT (BRUSH)

Squawcarpet	Snowbrush (<i>Varnishleaf</i>)
Deerbrush	<i>Ceanothus</i>
Greenleaf Manzanita	

USE PRECAUTIONS

1. Do not use on gravelly or rocky soils, exposed subsoils, clay knobs, sand or sandy soil with 85% or more sand.
2. Do not use on any soil containing less than 1% organic matter.
3. Do not use on loamy sand with less than 2% organic matter (except on Ponderosa and Jeffrey Pine). On soils high in organic matter (greater than 5%) effectiveness of PRONONE 10G is reduced and results can be unsatisfactory.
4. Do not graze domestic animals on treated area within 30 days after treatment

BRUSH CONTROL RANGELAND

PRONONE 10G is recommended for the control of undesirable woody plants in rangeland.

APPLICATION TIMING

Apply PRONONE 10G from late winter through summer, pre-bud break until new growth hardens off.

In areas where the soil remains frozen during the winter and spring rains are usually inadequate for soil activation, a fall or winter treatment may be applied before the soil freezes.

WOODY PLANTS CONTROLLED

PRONONE 10G is recommended for the control or suppression of the following species:

Alder	Lotebush
American Elm	Manzanita
Ash	Mesquite
Aspen	Mulberry
Balsam Poplar	Multiflora Rose
Birch	Myrtle Oaks
Black Cherry	Osage Orange
Blackgum	Persimmon
Catclaw Acacia	Privet
Cedar	Red Maple
Chinaberry	Sassafras*
Chinese Elm	Small Soapweed
Chinese Tallow	Snowbrush
Deerbrush	Sourwood
Dogwood	Sumac
Hackberry	Sweet Bay
Hawthorne	Sweetgum
Hazel	Whitebrush
Hickory	Whitehorn
Huisache	Wild Plum
Juniper	Willow
Locust	Yellow Poplar

*Partial control

USE RATES

Where a range of dosage is given, use the high dosage for control of plants that are listed being only partially controlled, or where long term control is desired.

Soil Texture	Pounds per Acre
COARSE	
Sandy, Loamy Sand, Sandy Loam,	8-15
Loam, Sandy Clay, Siltloam	15-22
FINE	
Clay Loam, Sandy Clay,	
Silt, Clay Loam	25-30
Silt, Silt Clay, Clay	25-30

USE PRECAUTIONS / RANGELAND

1. Injury to or loss of desirable trees or other plants may result if PRONONE 10G is applied, or if equipment is drained or flushed on or near desirable trees or other plants, on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
2. Poor weed and brush control may result from the following:
 - Use on poorly drained sites
 - Applications made when the soil is saturated with water and rain is imminent within 24 hours
 - Applications to soils high in organic matter, (greater than 5%)
3. Following mechanical cutting or clearing, allow stumps and injured trees sufficient time (one year's growth) to adequately resprout before applying PRONONE 10G
4. Do not use PRONONE 10G on frozen soils
5. Weed and brush control results depend on sufficient moisture to activate PRONONE 10G
6. Do not graze domestic animals on treated areas for 60 days.

NON-AGRICULTURAL USES

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.

Industrial and Non-Cropland weed and brush control applications as described on this label for PRONONE 10G are not within the scope of the Worker Protection Standard. The area being treated must be vacated by unprotected persons.

APPLICATION INFORMATION

PRONONE 10G is recommended for general weed and brush control in noncrop sites such as railroads; highway, utility and pipeline right-of-ways; petroleum tank farms; storage areas; industrial plant sites and other similar areas.

WEED CONTROL

APPLICATION TIMING

Apply PRONONE 10G as pre-emergence or post-emergence when weeds are actively germinating or growing.

WEEDS CONTROLLED - USE RATES

PRONONE 10G effectively controls the following weeds when applied at the use rates shown. When applied at lower rates, PRONONE 10G provides short-term control of the weeds listed; when applied at higher rates, weed control is increased and extended. For small areas, 1 pound of PRONONE 10G per 500 square feet is approximately 87 lbs. per acre.

Use the higher level of the recommended dosage ranges under the following conditions: on fine textured soils (clay, clay loam); on soils containing more than 5% organic matter or carbon; and, on coarse-textured soils (sand, loamy sand, gravelly soils) where rainfall exceeds 40 inches per year. Use the lower levels of the dosage range if the growing season is short.

30-50 lbs./Acre

Barnyard Grass	Lespedeza
Bindweed	Milkweed
Bouncing Bet	Mustard
Bromegrass	Nutsedge
Buffalograss	Orchardgrass
Burdock	Oxalis
Cocklebur	Paragrass
Crabgrass	Pigweed
Crown Vetch	Purselane
Curly Dock	Quickgrass
Dandelion	Ryegrass
Dogbane	Smartweed
Fiddleneck (tarweed)	Spurge
Filaree	Trumpet Creeper
Fleabane	Wild Oats
Goatsbeard Vine	Wild Parsnip
Goldenrod	Wild Star Thistle

60-120 lbs./Acre

Bahigrass	Heath Aster
Bermuda grass	Honeysuckle
Bluegrass	Lantana
Broomsedge	Marestail
Camphorweed	Natalgrass
Canada Thistle	Plantain
Chickweed	Prickly Lettuce
Clovers	Ragweed
Dewberry	Smutgrass
Dogfennel	Spanish Needle
Fescue	Vaseygrass
Fingergrass	Wild Blackberry
Foxtail	Wild Carrot
Guineagrass	

WOODY PLANT (BRUSH) CONTROL

APPLICATION TIMING

Apply PRONONE 10G from late winter through summer, prebud break until new growth hardens off.

In areas where the soil remains frozen during the winter and spring rains are usually inadequate for soil activation, a fall or winter application may be applied before the soil freezes.

WOODY PLANT CONTROLLED - USE RATES

40-50 lbs./Acre (Brush Control)

Alder	Manzanita
American Elm	Mesquite
Ash	Mulberry
Aspen	Multiflora Rose
Balsam Poplar	Myrtle
Birch	Oaks
Black Cherry	Osage Orange
Catclaw Acacia	Privet
Chinaberry*	Red Maple
Chinese Elm	Sassafras*
Chinese Tallow	Small Soapweed
Deerbrush	Snowbrush
Dogwood	Sourwood
Eastern Red Cedar*	Sumac
Hackberry	Sweet Bay
Hawthorne	Sweet Gum
Hazel	Whitebrush
Hickory	Whitehorn
Huisache	Wild Plum
Juniper	Willow
Locust	Yellow Poplar
Lotebush	

*partial control

INDIVIDUAL STEM TREATMENT

When individual stem control is desired, apply at a rate of 1/3 oz. for each 1" of stem diameter at breast height. Direct the application to the soil within 3 feet of root collar of woody plants to be controlled. When applying to large stems, application should be distributed on opposite sides of the stem.

USE PRECAUTIONS

1. Do not apply or empty equipment near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
2. Do not use on lawns, walks, driveways, tennis courts or similar areas.
3. Do not use on poorly drained sites.
4. Do not apply PRONONE 10G when soil is saturated with water and rain is imminent within 24 hours.
5. Do not apply PRONONE 10G immediately following mechanical cutting or clearing. Allow stems and injured trees sufficient time to adequately resprout before applying PRONONE 10G.
7. Do not use PRONONE 10G on frozen soils.

STORAGE AND DISPOSAL

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

PRODUCT DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an EPA approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then, dispose of bags in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE TO BUYER: Purchase of this material does not confer any rights under patents of countries outside of the United States.

NOTICE OF WARRANTY

Pro-Serve, Inc. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with direction under normal use conditions. It is impossible to eliminate risk inherently associated with use of this product.

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 Pro-Serve, Inc. In no case shall Pro-Serve, Inc. be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by buyer. Pro-Serve, Inc. **MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**



PRO-SERVE, INC.

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