

Reg # 3560-45

PM-23

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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460  <b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREГИSTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	EPA REGISTRATION NO.	DATE OF ISSUANCE <b>MAY 22 1991</b>
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT	

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

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**NOTE:** Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with section 5(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/re-registration of this product under FIFRA section 5(c)(5) with the agency together with registrants of similar products to submit such data.
2. Submit an acceptable acute dermal toxicity study (FIFRA 40 CFR reference to 81-2) within 9 months of the date of registration.
3. Add the phrase "EPA Registration No. 3560-45" to the label before you release the product for shipment.
4. Submit five (5) copies of the final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 5(c). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

**BEST AVAILABLE COPY**

Joanne L. Miller  
 Product Manager (25)  
 Registration Division Branch  
 Registration Division (1-7500)

Enclosure  
 ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL <i>Joanne L. Miller</i>	DATE <i>5/21/91</i>
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( D R A F T L A B E L )

PRONONE 25G

GRANULAR HERBICIDE

ACTIVE INGREDIENT:

Hexazinone (3-cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5-triazine-2,4(1H,3H)-dione).....25%

INERT INGREDIENTS:.....75%

KEEP OUT OF REACH OF CHILDREN

C A U T I O N !

PRECAUTIONARY STATEMENTS - HAZARDS

TO HUMANS AND DOMESTIC ANIMALS

Avoid contact with skin, eyes or clothing. In case of contact, flush eyes or skin with plenty of water. Get medical attention if irritation persists.

Remove contaminated clothing and wash before reuse.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 22 1981

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

33560-45

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## ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwater, or by disposal of waste.

EPA Est. No. 33560-TN-1      50 pounds net weight      EPA Reg. No. 33560

## IMPORTANT

Injury to or loss of desirable trees or other plants may result from failure to observe the following. 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. DO NOT use on lawns, walks, driveways, tennis courts or similar areas. Prevent contact with desirable plants. Keep from contact with fertilizers, insecticides, fungicides and seeds.

Thoroughly clean all traces of PRONONE 25G Granular Herbicide from application equipment immediately after use. Wash equipment thoroughly with water.

## GENERAL INFORMATION

PRONONE 25G Granular Herbicide is a special granular product to be distributed in a broadcast pattern on the soil surface, in reforestation 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.

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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.

#### 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 25G should be used only in accordance with recommendations on this label.

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

Refer to product labeling for use restrictions to protect ENDANGERED SPECIES.

#### HOW TO APPLY

Apply the granules by appropriate ground or aerial equipment. Calibrate the equipment to distribute the granules uniformly over the area to be treated. Wear gloves when handling granules to prevent contact with skin. 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.

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FOR CONTROL OF CERTAIN WEED AND  
BRUSH SPECIES FOR FORESTRY SITE  
PREPARATION AND CONIFER RELEASE

East of the Rocky Mountains: PRONONE 25G is recommended for forestry site preparation and conifer release in areas of greater than 20 inches of annual rainfall east of the Rocky Mountains where loblolly, longleaf, red, shortleaf, slash and Virginia pines are grown. PRONONE 25G is also recommended for site preparation where white spruce will be planted. When used as directed PRONONE 25G controls herbaceous weeds such as annual bluegrass, barnyard grass, bentgrass, bromegrass, catsear, common groundsel, common ragweed, false-dandelion, fleabane, foxtail, oxeye daisy, Pennsylvania smartweed, velvetgrass, and wild carrot. Treatment provides partial control of curly dock, dandelion, willowweed (fireweed), fescue, goldenrod, horseweed, orchardgrass, quackgrass, and ryegrass.

PRONONE 25G, when used as directed, also controls many woody plants including American elder, ashes (white, green), aspen (big tooth, trembling), balsam poplar, birch, blackcherry, blackgum, brambles (such as blackberry, dewberry, raspberry), cherry\*, chokeberry, dogwood\* (flowering), eastern red cedar, elm, hawthorne, hazel, hickory\*, honeysuckle, hornbeam, mulberry, multiflora rose, red maple\*, oaks (such as post, southern red, turkey, water, and white), Russian olive, sourwood, sumac, sweetgum, wild plum and willow.

\* Considered hard-to-kill.

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APPLY AT THE FOLLOWING RATES FOR SOIL TEXTURE: (Pounds of product per acre)

<u>SOIL TEXTURE</u>	<u>SITE PREPARATION 1)</u>	<u>CONIFER RELEASE 2)</u>
Sand, Loamy Sand, Sandy Loam	6 to 12	3 to 6
Loam, Sand Clay Loam, Silt Loam	12 to 16	6 to 9
Clay Loam, Sandy Clay, Silty Clay Loam, Silt, Silt Clay, Clay	14 to 18	9 to 12

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NOTE: Use the lower rates on coarse-textured soils and soils low in organic matter; use higher rates on fine-textured soils and soils high in organic matter.

PRONONE 25G is not recommended on poorly drained soils or marshy sites. PRONONE results may be slow to appear and maximum results will be seen 12-24 months following application.

Treatment may injure or kill 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 hardwood brush are controlled or suppressed.

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- 1) In Site Preparation Areas, where burning is desired, burn only after residual stand has completely defoliated at least twice, allowing for sufficient root uptake of PRONONE 25G, usually 60-90 days after rainfall.
  
- 2) In Conifer Release Areas, some mortality of conifer may be expected when application is erratic or sapling vigor is lacking due to damage by insects, disease, drought, winter stress, or other stress. Excessive injury may result when applications are made to loblolly pine that are less than four years of age since transplanting on coarse textured soils, or three years of age since transplanting on fine textured soils. Application to gravelly, rocky, or exposed subsoil may result in conifer injury. When soil texture varies abruptly, inconsistent results may occur.

TIMING

For best results, apply in spring when weeds and brush are actively growing, after the danger of a killing frost has passed (for target species) and when sufficient rainfall is expected. Do not graze domestic animals on treated areas within 30 days after treatment.

West of the Rocky Mountains: PRONONE 25G is also recommended for control of certain weeds and brush species in forestry site preparation and conifer release operations where Douglas Fir, Grand Fir, Noble Fir, White Fir, Ponderosa Pine, Jeffrey Pine and Sitka Spruce are grown.

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Since the effect of PRONONE 25G on conifers varies with soils, uniformity of application and environmental conditions, it is suggested that foresters limit their first use to small areas.

TIMING

West of Cascades (and other areas of high spring rainfall): For best results, apply in the spring when weeds 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 control results from spring applications will be dependent on sufficient rainfall following treatment to activate PRONONE 25G. Spring applications should be made after snow cover melts.

Do not graze domestic animals on treated areas within 30 days after treatment.

HERBACEOUS WEED CONTROL

When used as directed, PRONONE 25G controls weeds such as annual bluegrass, barnyardgrass, bromegrass, false dandelion, catsear, fleabane, common groundsel, foxtail, oxeye daisy, velvet grass and wild carrot. Treatment provides partial control of dandelion, fescue, goldenrod, heath aster, orchardgrass, ryegrass, smartweed, willowweed (fireweed).

Application Rates: Apply as a pre-plant or post-plant broadcast

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application at rates of 4-8 lbs. per acre. Use the lower rates on coarse-textured soils and soils low in organic matter; use the higher rates on fine textured soils and soils high in organic matter. Refer to "Use Limitations" section for specific details.

Moisture is necessary to activate PRONONE 25G. Best results are obtained when weeds are less than 2 inches in height or diameter, soil is moist at time of application, and 1/2 to 1 inch of rainfall occurs within 2 weeks after application.

**BRUSH CONTROL**

Among the brush species controlled are: Deerbrush ceonothus, squawcarpet, snowbrush ceonothus (varnishleaf ceonothus) and greenleaf manzanita.

**Application rates:** Use PRONONE 25G for brush control in forestry site preparation and conifer release where either Ponderosa Pine or Jeffrey Pine is the primary coniferous species. Apply PRONONE 25G at rates of 6-12 lbs. per acre. Use the lower rates on coarse-textured soils and soils low in organic matter; use the higher rates on fine-textured soils and soils high in organic matter.

For best results, 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.

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PRONONE 25G effects may be slow to appear and maximum results will be seen 12-24 months following the application.

Use Limitations:

- 1. Do not use on gravelly or rocky soils, exposed subsoils, clay knobs, sand or sandy soils with 85% or more sand.
- 2. Do not use on any soil containing less than 1% organic matter.
- 3. On soils high in organic matter (greater than 5%) effectiveness of PRONONE 25G is reduced and results may be unsatisfactory.
- 4. Do not use on loamy sand or sandy loam with less than 2% organic matter (except for Ponderosa and Jeffrey Pine).
- 5. On first year plantations, apply PRONONE 25G (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 Pine and Jeffrey Pine).
- 6. When applying PRONONE 25G after transplanting, wait until rainfall has settled the soil around the base of the transplants before making the treatment.

STORAGE AND DISPOSAL

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

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

CONTAINER DISPOSAL: 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.

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or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**NOTICE OF WARRANTY**

Pro-Serve 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 all 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 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 MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS for a particular purpose nor any other express or implied warranty except as stated above.

**NOTICE TO BUYER**

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

MANUFACTURED BY: PRO-SERVE, INC., 400 EAST BROOKS ROAD, MEMPHIS, TN 38109

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