

72322-1

11/30/2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511W)
401 M Street, S.W.
Washington, DC 20460

EPA Reg. Number:

Date of Issuance:

72322-1

NOV 30 2000

NOTICE OF PESTICIDE:

Registration
[X] Reregistration
(under FIFRA, as amended)

Term of Issuance: Unconditional

Name of Pesticide Product:

PLANT NOG®

Name and Address of Registrant (include ZIP Code):

Senn, Sharman and Senn, LLC
201 Strawberry Lane
Clemson, SC 29631

Note: Changes in labeling 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.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency.

The Food Quality Protection Act (FQPA) was signed into law on August 3, 1996. Although full implementation of FQPA has not been achieved, the Agency has no reason to believe that the registration of this product will, in any way, violate the terms of the Act.

This product is unconditionally registered in accordance with FIFRA Sec. 3(c)(5) provided you:

- 1. Submit and /or cite all data required for registration/reregistration of your product under FIFRA Sec.3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA Sec.4.
2. Submit five copies of the final printed labeling before you release the product for shipment.
3. Make the labeling changes listed below before you release the product for shipment:
-- Add the phrase "EPA Registration No. 72322-1."

This registration will be subject to cancellation in accordance with FIFRA sec. 6(e) if you do not comply with these conditions. Your release for shipment constitutes acceptance of these conditions.

Signature of Approving Official: See page 2 for signature of approving official

Date:

[Handwritten Signature]

EPA Form 8570-6

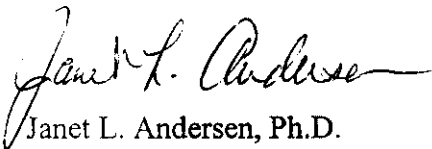
CONCURRENCES

Table with columns for SYMBOL, SURNAME, and DATE. Contains handwritten entries for 7511C, R. Williams, 11/23/00 and 7511C, R. Williams, 11-27-00.

A stamped copy of the draft label is enclosed for your records.

Any questions may be directed to Richard King, Regulatory Action Leader for this action, at (703) 308-8052, fax (703) 308-7026.

Sincerely,



Janet L. Andersen, Ph.D.
Director
Biopesticides and Pollution
Prevention Division (7511C)

ACCEPTED
with COMMENTS
In EPA Letter Dated

NOV 30 2000

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

72322-1

Environmental Hazards

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

STORAGE & DISPOSAL

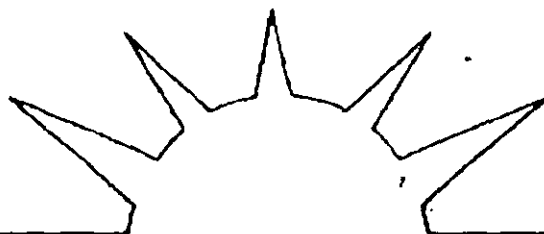
Plant Nog should always be agitated prior to use and will settle after storage due to high concentration of ingredients. Avoid excessive heat and freezing. Recycle empty container.

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

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

Distributed by
The Shawnee Group
P.O. Box 669
Seneca, South Carolina 29679
800-854-7682
www.plantinog.com



Plant

Shake Well

32 FL. OZ. (1QT) 946 mL

N.O.g.™

General Directions for Use:
SHAKE WELL BEFORE USE. Recommended for soil or foliar application. Apply fine mist or soil drench every 2 weeks. For specific crops or any special application, consult the distributor or manufacturer.

Active ingredient.....0.01%
Cytokinin (as Kinstin)
Other ingredient.....99.99%
Total: 100.00%

Information concerning the new materials comprising this product can be obtained by writing to the manufacturer. Please refer to the lot number found on this container.

Caution

KEEP OUT OF REACH OF CHILDREN.

Statement of Practical Treatment
IF SWALLOWED: Call a physician or Poison Control Center.
IF IN EYES: Flush eyes with plenty of water. Get medical attention if irritation persists.

EPA Est. No.
EPA Est. No. 63171-SC-1

Quaranteed and Manufactured by
Senn, Shawnee and Senn, LLC
201 Strawberry Lane
Clemson, South Carolina 29631

Best copy available
P. 02

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PLANT N.O.G. A Plant Growth Regulator

Active Ingredient:	0.01%*
Cytokinin (as kinetin)	
Other Ingredients:	99.99%
Total	100.00%

*based on biological activity

EPA Reg No. EPA Est. No. 63171-SC-1

SHAKE WELL BEFORE USING

CAUTION

KEEP OUT OF REACH OF CHILDREN

Statement of Practical Treatment

If **SWALLOWED**: Call a physician or Poison Control Center.
If **IN EYES**: Flush eyes with plenty of water. Call a physician if irritation persists.

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- 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 RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product.
- Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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 by cleaning of equipment or disposal of equipment washwaters.

DIRECTIONS FOR USE

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the WORKER protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE). 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 water entry into treated areas during the restricted entry interval (REI) of 4 hours.

EXCEPTION: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

FOR USE ON

Non-food crops: Commercial/industrial lawns, golf course turf, ornamental lawns and turf, ornamental sod, farm turf, recreation and lawns, ornamental and/ or shade trees, ornamental herbaceous plants, ornamental woody shrubs and vines, forest plantings (reforestation programs), pine forest, ornamental non-flowering plants, grasses, forage, fodder, Bermuda, bluegrass, rye, fescue, alfalfa, clover, lupine, vetch. Greenhouse ornamental flowers and Shrubs. Do not apply this product to fruits and vegetables.

COMPATIBILITY AND MIXING INSTRUCTIONS

For ease of application, Plant N.O.G. can be mixed with water-based herbicides, insecticides, and fungicides. However, a compatibility check should be made by mixing a small amount of the chemical with Plant N.O.G. in a glass jar.

Spreader-Sticker: Use Sea-Wet spreader-sticker for optimum results.

The more often the applications the better the results. In general a heavy application is not as effective as repetitive applications.

APPLICATION RECOMMENDATIONS

Read entire label before making applications.

Golf Course Maintenance

Tees and Greens—Apply 1 oz. per 1000 sq. ft. monthly during growing season.

Bent, Fescue, Rye, and Bent Fairways—Apply 1/3 gallon per acre in June and August.

Bermuda Fairways—Apply 1/3 gallon per acre before and after winter transition.

Overseeded Areas—Apply 1/3 gallon per acre following initial germination.

Lawn Maintenance

Cool Season Grasses—Apply 1 oz. per 1000 sq. ft. pre-season to prevent heat and drought damage, and in early fall for stress recovery.

Warm Season Grasses—Apply 1 oz. per 1000 sq. ft. during active growth in the fall and in early spring to improve winter recovery and reduce spring dieback.

Sod Installation

Apply 1 oz. per 1000 sq. ft. to soil surface before installation or foliar apply after installation for quick knit down.

New Seeding, Over-seeding

Apply 1 oz. per 1000 sq. ft. after germination at the 2- to 4-leaf stage of growth. Same rate applies for newly sprigged turf.

Hydro seeding

Add 1/2 gallon per acre to the tank mix before spraying.

Foliar Spray for Greenhouse ornamentals, flowers, and shrubs

For use on the foliage of flowering plants, shrubs and trees: Dilute 2 tablespoons in 1 gallon of water and spray until solution drips off of leaves. For large areas, spray 1 quart of Plant N.O.G. per acre diluted in 15 to 20 gallons of water at 35 lbs. psi. Applications should be repeated three or four times during the growing season.

Row Crops

Preplant—Apply 1 quart per acre diluted in 5 to 25 gallons of water.

Foliar Spray: 1st application—Apply 1/2 gallon diluted in 2 to 15 gallons of water 30 to 40 days after emergence.

2nd Application—Apply 1/2 gallon per acre diluted in 2 to 15 gallons of water 3 to 4 weeks after 1st application

3rd Application—Apply 1/2 gallon per acre diluted in 2 to 15 gallons of water 2 to 3 weeks prior to fruit setting.

Time of Day and Weather Conditions: The greatest product performance occurs when Plant N.O.G. is applied when air temperature is 85° F or below and the sun is not directly overhead. Do not apply after heavy dew, or on rainy days, or if rain is predicted within 12 hours after application.

CHEMIGATION

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; flood (basin); furrow, border; drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, lack effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Chemigation systems connected to public water systems:

Public water system means a system for the provision to the public of piped water for human consumption of such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone (RPZ), backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of a least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump control stops, or in cases when there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump)

effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment. The pesticide supply tank should be agitated throughout the application of Plant N.O.G.

Sprinkler and Drip (trickle) Chemigation: The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain function-interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a function pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. The pesticide supply tank should be agitated throughout the application of Plant N.O.G. Do not apply when wind speed favors drift beyond the area intended for treatment. Plant N.O.G. should be applied in sufficient water to penetrate into the root zone without excessive leaching into deeper soil.

Flood (Basin), Furrow and Border Chemigation: Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow is water flow stops.

Systems utilizing a pressurized water and pesticide injections system must meet the following requirements.

1. The system must contain a function check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (i.e., Diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Plant N.O.G. should be applied in sufficient water to penetrate into the root zone without excessive leaching into deeper soil.

STORAGE AND DISPOSAL

Storage: Plant N.O.G. should be stored in a cool place out of reach of direct sunlight. Protect from freezing.

Disposal: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent) plastic containers. 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.

Warranty – Manufacturer's and seller's obligation is limited to the replacement of the quantity of defective material only. Neither seller nor manufacturer shall be liable for any damages directly or consequently arising from the use of Plant N.O.G. product. Buyer assumes all responsibilities other than stated label guarantee.

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Clemson, South Carolina 29631