

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 401 "M" St., S.W. Washington, D.C. 20460 EPA Reg. Number:

Date of Issuance:

1001-72

JUN 15 1998

Term of Issuance:

Conditional

Name of Pesticide Product:

Spectro 90 WDG

NOTICE OF PESTICIDE:

XX Registration
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Mr. Richard F. Fletcher Cleary Chemical Corporation 178 Ridge Road, Suite A Dayton, NJ 08810

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. In any correspondence on this product always refer to the above 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 FIFRA section 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA section 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 section 4.
- 2. Modify the labeling as follows:
 - a. Revise the EPA Registration Number to read, "EPA Reg No 1001-72".

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Signature of Approving Official

Date:

Cynthia Giles-Parker Product Manager (22)

Fungicide Branch

Registration Division (7505C)

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- b. Based on chemical purity of 96% for chlorothalonil and 94.3% for thiophanate-methyl, percentages by weight in Column 13(b) of the Confidential Statement of Formula (CSF) should be corrected to 75% for chlorothalonil and 19% for thiophanate-methyl. Submission of CSF should be done within the next 15 days after receipt of this Notice of Pesticide Registration.
- c. On the label, the diseases intended to be controlled should be associated with the plants on which they occur. This may be done by numbering the disease names and adding appropriate numbers behind the plant names.
- 3. Submit one copy of the revised final printed label for the record.

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 of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. If you have any questions, then please contact María I. Rodríguez of my staff at 703-305-6710 or me at 703-305-7740.

ACCEPTED with COMMENTS In EPA Letter Dated

JUN 15 1998

Cleary's SPECTRO 90 WDG

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

Turf and Ornamental Fungicide

For the prevention and control of fine turf diseases and diseases of annual and perennial flowers, ground covers, plus deciduous and evergreen trees and shrubs.

Active ingredients:

chlorothalonil (tetrachloroisophthalonitrile)

72%

thiophanate-methyl (dimethyl 4,4-o-phenylenebis-(3, thioallophanate))

18%

Inert ingredients

10%

Total

100%

Keep Out Of Reach Of Children Danger - Peligro

See side panel for additional precautionary	
statements.	

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

STATEMENT OF FIRST AID

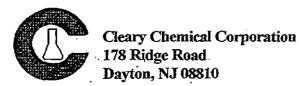
If swallowed: Call a physician or Poison control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. **Do not** induce vomiting or give anything by mouth to an unconscious person.

If in eyes: Immediately flush eyes with plenty of water and continue for 15 minutes. Seek medical attention for eye immediately.

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

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

Note to physicians: Persons having temporary irritation may respond to treatment with antihistamines or steroid creams and/or systemic steroids.



EPA Reg. No. 1001 -(pending)

PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals.

DANGER - Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. May be a potential skin sensitizer. **Do not** get in eyes or on clothing. Harmful if inhaled. Avoid breathing dust or spray mist. Avoid prolonged contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. **Do not** take internally.

Note to user: this product may produce mild bronchial irritation and temporary irritation of the skin characterized by redness or rash on exposed skin areas. Affected persons should consult a physician. **Do not** graze animals of treated turf or feed clippings to livestock or poultry.

Personal Protection Equipment (PPE):

WPS Uses: Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170), must wear the following:

Long sleeved shirt and long pants

Waterproof gloves

Shoes plus socks

Protective eye wear

 A dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

For exposures in enclosed areas, applicators and other handlers must wear a respirator with either an organic vapor removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Non-WPS Uses: Applicators and other handlers who handle this pesticide for any use not covered by the Worker Protection Standard (40 CFR Part 170), must wear the following:

Long sleeved shirt and long pants

Waterproof gloves

Shoes plus socks

Protective eve wear

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

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This product is toxic to fish, aquatic invertebrates, and marine/esturarine organisms. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. **Do not** apply directly to water for 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. **Do not** apply when weather conditions favor drift from treated areas. Apply only to areas specified on label.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. **Do not** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific statements and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box **only** apply to uses of this product that are covered by the Worker Protection Standard. **Do not** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours. Personal Protective Equipment (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 with socks, and protective eye wear.

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.

Turf and Landscape Uses: Keep children and pets out of treated area until sprays have dried.

General Information:

Cleary's SPECTRO may be applied with ground using sufficient volume of spray to provide thorough coverage. Add required amount of SPECTRO to a partially filled tank, agitate by mechanical or hydraulic means and then add remaining required amount of water. Continuous agitation is required to keep the material in suspension. **Do not** tank mix with copper-containing materials or with highly alkaline pesticides such as Bordeaux mixture of lime sulfur. **Do not** combine SPECTRO with other pesticides, surfactants, or fertilizers, unless your prior use has shown the combination is physically compatible, effective, and non-injurious under your conditions of use. In general, add insecticide and fertilizer products last. No claim of compatibility with other pesticides is implied. **Do not** combine SPECTRO with Dipel 4L, Foil, Triton Ag-98, Triton B-1956, Latron B-1956 or Latron AG-98 as phytotoxicity may result from the combination when applied to some species on this label.

TURF APPLICATIONS

For use on all fine turf applications such as commercial and home lawns, athletic fields, sod, cemeteries, parks, golf course greens, tees, and fairways of cool season and warm season grasses (such as Bentgrasses, Bermudagrasses, Bluegrasses, Fescues, Ryegrasses, St. Augustine grasses, and Zoysia) of their mixtures. Cleary's SPECTRO is not phytotoxic to any of the above mentioned grasses when used in accordance with the label. SPECTRO is to be used for the prevention and control of the diseases mentioned below. It can provide both curative and protective action. For best results use spray mixture the same day it is prepared. Spray uniformly over the area to be treated with a properly calibrated power sprayer. Begin applications when a conditions favor disease development and repeat applications as long as these conditions persist. Preventative treatments should be applied using 7-14 day

intervals. When treating golf greens, always treat aprons and approaches. Use the highest recommended rate and shortest application interval under conditions of severe disease pressure. Apply after mowing or avoid mowing twelve hours after application. Do not mow or water after treatment until spray deposited on turfgrass is thoroughly dry (unless directed specifically by use directions). Apply recommended amounts in sufficient water to obtain thorough coverage (2-4 gallons suggested per 1,000 square feet). Cleary's SPECTRO should always be used in conjunction with good turf management practices.

Disease(s) controlled	Preventative Rate (oz/1000)	Curative Rate (oz/1000)
1.anthracnose (foliar and basal rot) Colletotricum graminicola (a)	8-12	n/a
2.brown patch Rhizoctonia solani, R. zeae, R. cerealis	3-5	6-8
3.copper spot Gloeocercospora sorghi	3-5	6-8
4.dollar spot Sclerotinia homeocarpa, Lanzia or Moellerodiscus spp.	3-5	6-8
5.gray leaf spot Pyricularia grisea, P. oryzea	8-12	n/a
6.leaf spot, melt-out Helminthosporium spp., Dreschlera spp., Bipolaris spp., Curvularia spp.	3-5	6-8
7.red thread Laetisaria fuciformis	3-5	6-8
8.snow mold, gray Typhula spp. (b)	6-8	10-12
9. snow mold, pink Fusarium nivale, Microdochium nivale (b)	6-8	10-12
10.bluegrass stem rust	3-5	6-8
11. powdery mildew	3-5	6-8
12. downey mildew	3-5	6-8
13. fusarium blight	3-5	6-8
14. fusarium patch	3-5	6-8
15. dichondra leaf spot	4-6	6-8

Special Instructions:

- (a) Irrigate/syringe lightly (0.1 0.25 inches of water) after 8-12 hours. Take care not to move material below root zone of turf in treatment area.
- (b) Apply before turf has stopped all growth activity and before snow cover. If snow cover is intermittent or lacking, additional applications may be made at monthly intervals in areas of suspected or historic gray snow mold activity. In areas of predominantly pink snow mold, application should be made during the reproductive (fruiting) period of the pathogen for best results. Consult with your local extension service for this information.

HORTICULTURAL APPLICATIONS

Nursery, Greenhouse, Landscape, and Interiorscape

Annual and perennial flowers, ground covers, plus deciduous and evergreen trees and shrubs

Apply Cleary's SPECTRO at a rate of 1.5 to 2.0 pounds per 100 gallons of water unless other directions are given in the information below. For best results use spray mixture the same day it is prepared. Spray uniformly over the area to be treated with a properly calibrated power sprayer, apply as a full coverage spray to mm-off when conditions are favorable for disease development. Repeat applications at 7-21 day intervals as needed. Application should be made to plants when both foliage and flowers are dry, or nearly dry. SPECTRQ can provide both curative and protective action. Use the highest recommended rate and shortest application interval under conditions of severe disease pressure. **Do not** use mistblower or high pressure (greater that 400 psi) spray

equipment when making applications in greenhouses. Do not use this product on plants bearing fruits and other parts/structures which may be eaten.

Diseases Controlled:

Leafspots/Foliar Blights

Actinopelte leafspot

Alternaria leafspot/leaf blight

Anthracnose leaf blotch/spot

Anthracnose blights

Ascochyta blight

Bipolaris (Helminthosporium) leafspot

Botrytis leafspot, leaf blight

Cephalosporium leafspot

Cercospora leafspot

Cercosporidium leafspot

Corynespora leafspot

Coryneum blight (shothole)

Curvularia leafspot

Cylindrosporium leafspot

Dactylaria leafspot

Didymellina leafspot

Drechslera leafspot

Exobasidium leaf blister

Fabraea (Entomosporium) leafspot

Fusarium leafspot

Gloeosporium black leafspot

Flower Spots/Blights

Botrytis flower spot/flower blight

Curvularia flower spot

Monilinia blossom blight

Stem Rots/ Crown Rots

Botrytis spp.

Cylindrocladium stem canker

Fusarium spp.

Gliocladium spp.

Ink spot (Drechslera)

Marssonina leafspot

Monilinia blossom blight, twig blight

Mycosphaerella ray blight

Myrothecium leafspot, brown rot

Nematostoma leaf blight

Phyllsoticta leafspot

Phytophthora leaf blight, dieback

Powdery Mildews

Ramularia leafspot

Rhizoctonia web blight

Rusts

Scab spp.

Septoria leafspot

Sphaeropsis leafspot

Stagonospora leaf scorch

Tan leafspot (Curvularia)

Taphrina leaf blister

Volutella leaf blight

Ovulinia flower blight

Rhizopus blossom blight

Sclerotinia flower blight

Myrothecium spp.

Ramularia spp.

Rhizoctonia spp.

Sclerotinia spp.

Ornamentals Suggested For Treatment

Note: The following listing of plants reflect the cumulative inputs from both historical field use and product testing programs. However, it is impossible to test this product on all species and cultivars. This list is provided as a general guide. A preliminary trial is suggested on a small scale before a full treatment is applied to any plant type not shown on this label but found in a similar use site with a listed disease problem Wait 5-7 days after treatment to evaluate trial results for possible phytotoxic responses. This product is not recommended for the following plants: Boston Ivy, Boston Fern, and Easter Cactus.

Trees and Shrubs Andromeda ---Mountain Laurel Ash Norfolk Island Pine Aspen Oak Azalea Oregon-grape (Mahonia) Buckeye, Horsechestnut Ornamental Almond Cherry-Laurel Ornamental Cherry Conifers Ornamental Peach Crabapple Ornamental Plum Shewo Sand Physimental Quince Eucalyptus Poplar Euonymus Privet (Ligustrum) Firethorn (Pyracantha) Rhododendren Hawthorn Seguoia Holly (Ilex spp.) Spiraea Lilac Sycamore, Planetree Magnolia Viburnum Maple Walnut (Juglans) Ornamental Plants, Bulbs, and Ground Covers Arabian Violet Impatiens Aster Iris Begonia Lily Bleeding heart Marigold Camellia Narcissus Carnation Natal plum Chrysanthemum Pachysandra Crocus Pansy Croton Petunia Daffodil Phlox Daisy Poinsettia Geranium Rose Gerbera Daisy Sansevieria Gladiolus Statice Flame violet Tulip Hollyhock Zinnia Hydrangea (foliage)

Foliage Plants

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Aechmea
Aglaonema
Artemesia
Birdnest Fern
Bougainvillea
Caladium
Christmas Cactus

Dumbcane (Diffenbachia)

Dracaena
False Aralia
Fatsia (Aralia)
Ficus
Fittonia spp.
Florida Ruffle

Gypsophila

Hollyleaf Fern

Hova

Jade plant

Leatherleaf Fern

Lipstick plant

Ming aralia

Oyster plant (Rhoeo)

Pachysandra

Palms

Parlor palm (Chamaedorea)

Peacock plant

Peperomia

Philodrendron

Pilea

Pothos (Scindapsus, Epipremnum)

Prayer plant (Maranta)

Purple Passion Vine

Staghorn Fern

Syngonium

Ti plant

Tolmeia

Venus Fly Trap

Yucca

Zebra plant (Aphelandra)

Note: Do not apply SPECTRO to either green or variegated Pittosporium or to Schefflera, as multiple applications have been demonstrated to cause phytotoxic responses.

Special Instructions For Conifers

Diseases Controlled

Diplodia Tip blight (Sphaeropsis) (b)

Swiss needlecast (a)

Scleroderris canker (pines)(a)

Sirococcus tip blight(a)

Rhizosphera needlecast (spruces)(a)

Scirrhia brown spot (pines)(a)

Cyclaneusma needlecasts(b)

Lophoderium needlecasts (b)

Rhabdocline needlecast (b)

Botrytis seedling blight (c)

Phoma twig blight (c)

Phomopsis Twig Blight (b)

Kabatina Twig Blight (b)

(a) Make first application is spring when new shoot growth is ½ to 2 inches in length. Make additional applications at 3-4 week intervals until conditions no longer favor disease development.

(b) Apply at budbreak and repeat at 2-3 week intervals until needles are fully elongated and conditions no longer favor disease development.

(c) Begin applications in nursery beds when seedlings are 4 inches tall and when cool, moist conditions favor disease development. Make additional applications at 7-14 day intervals as long as disease favorable conditions persist.

CHEMIGATION - Application through Irrigation Systems

Generic Requirements

1. Apply this product only through a sprinkler including center pivot, lateral move, end tow, side wheel roll, traveler, solid set, hand move, hand held or similar; flood (basin); or drip (trickle) irrigation system. Do not apply this product through any other type of irrigation system.

2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

3. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

4. 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.

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5. 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.

Specific Requirements

- 1. Public water system means a system for the provision to the public of piped water for human consumption if 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.
- 2. 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 at least twice the inside diameter of the fill pipe.
- 3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back towards the injection pump.
- 4. 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 drawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, 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 or equivalent, effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7. Do not apply when wind speed favors drift beyond the area intended for treatment.

APPLICATION INSTRUCTIONS

Hand Held Irrigation

- 1. Remove scale, pesticide residue, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.
- 2. Determine the treatment rate as indicated in the directions for use for crop and pathogen and measure the intended areas of application.
- 3. Prepare a suspension of product in the mix tank or stock bucket. Fill the tank with 1/2 or 3/4 of the desired amount of water. Start agitation and add the required amount of product to the solution along with the remaining volume of water.
- 4. Maintain a gentle agitation in the mix tank during application to assure a uniform suspension.
- 5. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time. An injection ration of 1:100 is recommended for greenhouse systems.

INSTRUCTIONS FOR SPRINKLER - (OVERHEAD) IRRIGATION

Observe the requirements in the System Requirements section above. Do not apply when wind speck favors drift beyond the area intended for treatment. Apply SPECTRO only through systems containing anti-siphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off. Maintain a gentle continuous agitation in mix tank during mixing and application to assure a uniform suspension. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension

per unit time. Application of more than recommended quantities of irrigation water per acre may result in decreased product performance.

Do not apply when wind speed favors drift. When system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained in a center pivot system, block the nozzle set nearest the well pivot injection unit to prevent spray being applied to this area. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result. Allow sufficient time for pesticides to be flushed through all lines and all nozzles before turning off irrigation water.

SPECTRO may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided. Check local restrictions and requirements regarding sprinkler irrigation applications, as they may vary from state to state. Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water. Prepare a suspension of SPECTRO in a mix tank. Fill the tank with 1/2 to 3/4 of the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of SPECTRO and then the remaining volume of water. Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of SPECTRO into the irrigation water line so as to deliver the desired rate per acre. The suspension of SPECTRO should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

Storage and Disposal

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

Storage: Store in a cool, dry area in original unopened container. Store in a secured area unavailable to unauthorized persons.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide sprays or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental control Agency, or the Hazardous waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty in a sanitary landfill or by incineration or as allowed by State and local authorities by burning. If burned, stay out of smoke.

LIMITED WARRANTY AND DISCLAIMER

W.A. CLEARY CHEMICAL CORPORATION warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. W.A. CLEARY CHEMICAL CORPORATION makes no other expressed or implied warranty of fitness or merchantability or any other expressed or implied warranty. In no case shall W.A. CLEARY or seller be liable for consequential, special or indirect damages resulting from the use or handling of this product including, but not limited to, loss of profits, business reputation, or customers, labor costs, or other expenses incurred in planting or harvesting.

W.A. CLEARY and seller offer this product and the buyer and user accept it subject to the foregoing conditions of sale and warranty which may be varied only by agreement in writing signed by a duly authorized representative of W.A. CLEARY CHEMICAL CORPORATION.