

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PM 92

63950-7

9/23/98

Pg 1/5

SEP 23 1998

Mr. Vernon L. Illum
6613 Haskins
Shawnee, KS 66216

Dear Mr. Illum:

Subject: Blue Circle Seed Treatment Biological Fungicide
EPA Reg. No. 63950-7
Correspondence of June 11, August 17, and September 2, 1998

The Biopesticides and Pollution Prevention Division (BPPD) issued a letter on May 19, 1998, requesting voluntary revisions of the cited pesticide product label. A representative of your client, Stine Microbial Products (Stine), responded on June 11, 1998 (J. Reichling to J. Andersen), by agreeing to work with BPPD to amend the label, and requesting a meeting on the issues. You and Dr. Dick Ridgeway represented Stine at the resulting July 22, 1998, meeting. A revised label was submitted for review on August 17, 1998. Denise Greenway, of my staff, alerted you by phone on September 1, 1998, of deficiencies in both the proposed label and accompanying EPA Form 8570-1. Updated replacements of the draft label and form were subsequently submitted on September 2, 1998

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comment listed below. A stamped copy is enclosed for your records. One copy of the printed labeling must be submitted prior to releasing the product for shipment.

- 1) On page one of the label, replace the period following "Ornamentals" with a comma.

Thank you for the July 15, 1998 report from Dr. Pamela A. Sokol of PathoProbe, Inc. It was included with the August 1998, submission of the subject revised label. During the July 22, 1998, meeting, BPPD was advised that Stine's three strains of the active ingredient,

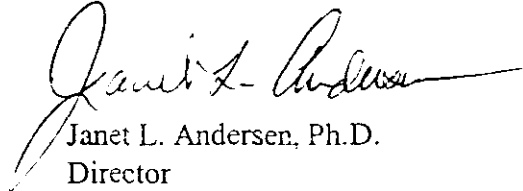
~~*Burkholderia cepacia*, had also been placed with additional laboratories for similar analyses.~~

		CONCURRENCES					
SYMBOL	Please provide BPPD with the test results from the other laboratories when that data become available.						
SURNAME	Greenway	Huston					
DATE	9/21/98	9/21/98					

available. It is required that any adverse effects be promptly reported to the Agency, as per section 6(a)(2) of FIFRA.

We appreciate the professional responsiveness and cooperation with which our requests for the voluntary label revisions were met by you and your client. Should you have any questions or concerns, please contact me, or telephone Denise Greenway on (703) 308-8263.

Sincerely,



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

Enclosure

DGreenway/308-8263/9-17-98/63930-7revised.wpd/Bcepacia

Expiration Date:

Lot Number:

BLUE CIRCLE®

SEED TREATMENT BIOLOGICAL FUNGICIDE

EPA Reg Number: 63950-7

EPA Est. Number: 7173-WI-003

US Patent: 4,798,723

Use this product to protect the seed and the plant roots from soil borne disease pathogens (such as *Pythium*, *Rhizoctonia*, *Fusarium*) in greenhouse or field grown crops such as: Vegetables, Fruits and Berries, Nut Crops, Vine Crops, Herbs and Spices, Ornamentals. Flowers and Ornamental Bulbs, Trees and Shrubs, Field Crops and Grain Crops.

Some *Burkholderia cepacia* strains have been linked to cepacia syndrome. Persons and family members of persons with cystic fibrosis or immune system-compromising illnesses should not use this product.

Active Ingredient:

Burkholderia (Pseudomonas) cepacia type Wisconsin Isolate J82 3.8% (by weight)

Inert Ingredients: 96.2% (by weight)

Total 100.0% (by weight)

Contains at least 50 million viable cells of Isolate J82/lb. (10⁵ cells/gm) of product at expiration

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals: **CAUTION**

May cause moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment (PPE) - Applicators and other handlers must wear...1) long sleeved shirt and long pants, 2) shoes plus socks, 3) protective eyewear and 4) dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE filter.

Follow manufacturers instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

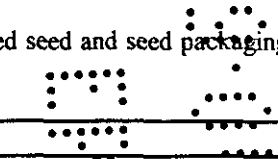
ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to inter-tidal areas below the mean highwater mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Exposed treated seed may be hazardous to birds and other wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water

STATEMENT OF PRACTICAL TREATMENT

In Eyes: Flush eyes with plenty of water. Call a physician if irritation persists.



ACCEPTED
with COMMENTS
In EPA Letter Dated

SEP 23 1998

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

63950-7

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 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 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 is:

- 1) Coveralls
- 2) Waterproof gloves
- 3) Shoes plus socks

Do not apply via any method that will result in the production of an inhalable aerosol.

Do not use treated seed or ornamental bulbs or ornamental vegetative cuttings for food, feed or oil purposes. Treat only those seeds needed for immediate use and planting. Do not store treated seed beyond planting time.

Application Site: Seed at planting, ornamental bulbs, base of ornamental vegetative cuttings for rooting.

Application Method: BLUE CIRCLE should be mixed with seed immediately prior to planting. The indicated amount of seed is added to the planter box and moistened lightly with water from a spray bottle. BLUE CIRCLE is then added to the planter box and mixed thoroughly with the seed using a paddle to assure uniform coverage. The seed must be planted immediately after treatment with BLUE CIRCLE. When used to treat ornamental bulbs or ornamental vegetative cuttings, dip the base in BLUE CIRCLE, shake off excess and plant immediately.

Target Crops:

Vegetables (field and greenhouse) including but not limited to: tomatoes, peppers, cucumbers, carrots, potatoes and lettuce.

Fruits and Berries including but not limited to: apple, peach, tropical, cherry and brambles.

Nut Crops including but not limited to: walnut, pistachio and pecan.

Vine Crops including but not limited to: melons and grapes.

Herbs and Spices (field and greenhouse) including but not limited to: basil, sage, marjoram, oregano, cinnamon and nutmeg.

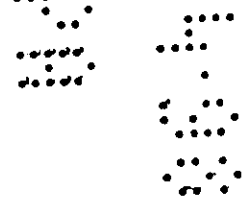
Ornamentals (field and greenhouse) including but not limited to: philodendron, dieffenbachia, dracaena and ficus.

Flowers and Ornamental Bulbs (field and greenhouse) including but not limited to: impatiens, petunias, geraniums, roses, chrysanthemums, violets, azaleas, kalanchoes, begonias, gloxinias, cyclamen, lilies and exacum.

Trees and Shrubs (field and greenhouse) including but not limited to: barberry, cotoneaster, euonymus, holly, ivy, ilex, rhododendron, rose, spirea, viburnum, juniper, pine, spruce, yew, oak, maple and birch.

Field and Grain Crops including but not limited to: corn, soybeans, dry beans, cotton, canola, sunflower, peanut and wheat.

Dosage Rate: The dosage rate for BLUE CIRCLE is determined by the size of the seed to be treated. Within a plant grouping, the higher rate given applies to smaller seeded species and cultivars while the lower rate applies to the larger seeded species and cultivars. For crops not listed within a grouping, use the rate that corresponds most closely with your crop seed size. At the highest dosage rate, this bag will treat 16 pounds of seed. Use sufficient product to assure uniform seed coverage.



PLANT GROUPINGS:

ALL FIELD CROPS - Rate range is 1 ounce (28 gm) per 1 - 20 pounds (454 gm to 9.1 kg) of seed. Low Rate of 1 ounce (28 gm) per 20 pounds (9.1 kg) of seed, up to a High Rate of 1 ounce (28 gm) per 1 pound (454 gm) of seed. Crop examples are such as, but not limited to, the following:

- Small Grains.....4 ounces (112 gm) per 50 pounds (22.7 kg) of seed
- Corn, soybeans.....2 ounces (56 gm) per 40 pounds (18.2 kg) of seed

ALL VEGETABLES, FRUITS, NUTS, HERBS, SPICES - Rate range is 1/2 - 1 ounce (14-28 gm) per 1 - 20 pounds (454 gm - 9.1 kg) of seed. Low rate of 1/2 - 1 ounce (14-28 gm) per 20 pounds (9.1 kg) of seed, up to a High Rate of 1/2 - 1 ounce (14-28 gm) per 1 pound (454 gm) of seed. Crop examples are such as, but not limited to, the following:

- Tomatoes, cabbage.....1 ounce (28 gm) per 1 pound (454 gm) of seed
- Squash, melons.....1/2 ounce (14 gm) per 1 pound (454 gm) of seed
- Beans, peas.....2 ounces (56 gm) per 40 pounds (18.2 kg) of seed

ORNAMENTAL AND GREENHOUSE CROPS - Crop examples are such as, but not limited to the following:

- Small flower seed.....Sufficient product to coat seed
- Ornamental bulbs and Ornamental vegetative cuttings.....Dip and shake off excess

Frequency of Application: Once at planting time.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL

Pesticide Storage: BLUE CIRCLE should be stored in the original sealed bags until used. Bags should be kept in a dry place at a temperature between 10°F - 75°F. This product contains live bacteria. AVOID heat, sun and drying

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: Empty bag completely into application equipment. Then, dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, keep out of smoke.

WARRANTIES AND LIABILITIES: The manufacturer guarantees that the contents and total amount are as stated within lawful limits. Due to conditions beyond the control of Stine Microbial Products, such as the time, place and rate of application; weather conditions; dispensing equipment; storage facilities; etc.; the warranty shall be limited to refund of purchase price or replacement product. Such is expressly agreed to by the Buyer as the exclusive sole remedy. In no event shall Stine Microbial Products be liable for indirect or consequential damages. The manufacturer warrants that this product consists of the specified ingredients listed on the label and is reasonably fit for the purpose stated when used in accordance with the directions under normal conditions of use. No one other than an officer of Stine Microbial Products is authorized to make any other warranty or guarantee regarding this product.

Manufactured for:

Stine Microbial Products
2225 Laredo Trail
Adel, IA 50003

BLUE CIRCLE® is a registered trademark of Stine Microbial Products
EPA Registration Number: 63950-7
EPA Establishment Number: 7173-WI-003
US Patent: 4,798,723

NET CONTENTS: 1 POUND (454 GM)

