

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SEP 19 1997

DuPont Specialty Chemicals
Jackson Laboratory
Chambers Works
Deepwater, N.J. 08023

Attention: Rick Tinsworth, Agent

Subject: Microfree Brand Z 200
EPA Registration No. 69897-4
Amendment Dated August 4, 1997

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Rodenticide, and Rodenticide Act, as amended, is acceptable, provided that you make the following labeling comments listed below:

- 1. Revise your labeling by adding the following statement as the third paragraph under the "Directions For Use".

"Do not use in the manufacture or treatment of items that may come in contact with food or drinking water".

- 2. In the "Storage and Disposal" section, revise the pesticide disposal instructions to read:

"Pesticide Wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

A stamped copy of the labeling is enclosed for your records. Two (2) copies of the finished labeling must be submitted prior to releasing the product for shipment.

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

The revised Confidential Statement of Formula and certified limits are in compliance with PR Notice 91-2, they agree with the label and are acceptable.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely,



Marshall Swindell
Acting Product Manager 33
Regulatory Management Branch 1
Antimicrobial Division (7510W)

Enclosure

Microfree[®] Brand Z 200

A DuPont Antimicrobial Powder Formulation

A Microbiocide for Use in the Manufacture and Preservation of Commodity Products

Active Ingredients:	
Silver	0.24%
Zinc Oxide	95.94%

Inert Ingredients:	3.82%
TOTAL:	<u>100.00%</u>

ACCEPTED
with COMMENTS
in EPA Letter Dated:
SEP 12 1987
Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide.
registered under EPA Reg. No.
69897-4

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

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

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

IF SWALLOWED: If swallowed, drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Call a physician or poison control center. Do not induce vomiting or give anything by mouth to an unconscious person.

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

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Registration No. 69897-4
EPA Establishment No. 6342-OH-02
Net Contents: 1 gallon

Precautionary Statements Hazards to Humans and Domestic Animals

CAUTION

CAUTION: Harmful if swallowed, inhaled, or absorbed through the skin. (*Wash thoroughly with soap and water after handling.) Avoid contact with eyes or skin. Avoid contamination of cooking utensils and food preparation surfaces. Avoid breathing dust. Remove contaminated clothing and wash before reuse.*

ENVIRONMENTAL HAZARDS: This product is toxic to fish. Keep out of any natural body of water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE:

It is a violation of Federal Law to use this product inconsistent with its labeling.

CLAIMS: Microfree® Brand Z 200 is an antimicrobial powder for commercial use. It is designed to be incorporated into the materials listed below as part of the manufacturing process to impart antimicrobial activity to the manufactured materials. Microfree® Brand Z 200 antimicrobial powder suppresses the growth of bacteria and mold responsible for unpleasant odors, and discoloration of the finished product.

Products containing Microfree® Brand Z 200 may not make claims of antimicrobial activity other than protection of the article itself against growth of bacteria and mold in the treated article. If growth of bacteria and mold in the treated article would lead to unpleasant odors and discoloration of the treated article, then such a claim may be made.

Microfree® Brand Z 200 may be incorporated into the following materials at the specified Maximum Inhibitory Concentrations (MIC) on a weight basis of finished products.

<u>APPLICATION</u>	<u>MIC</u>
Plastics (see separate description of resins and applications)	15.0%
Fibers (see separate description of resins and applications)	15.0%
Coatings (see separate description of resins and applications)	10.0%
Adhesives and Sealants (see separate description of resins and applications)	10.0%

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TYPES OF MATERIALS:

1) Plastics including films, sheets, slabs, and molded plastic parts:

Resins: Including polyester, polyamide, polyimide, polypropylene, polyethylene, polysiloxane, polyethylene copolymer, polyvinyl alcohol, polyvinyl chloride, epoxy, phenolic, polycarbonate, cellulose acetate, polystyrene, polyurethane, acrylic, polymethyl methacrylate, acrylonitrile-butadiene-styrene copolymer, and fluoropolymers.

Applications: For non-human drinking water and non-food use applications only. Including shower curtains, mats, protective covers, tape, packaging, gaskets, waste and general purpose containers, brush handles, sponges, insulators, plastic film, indoor and outdoor furniture, tubing, insulation for wire and cable, siding for housing, liners, kitchen and bathroom hardware, countertops not including kitchen countertops or any other food-contact countertops*, sinks, footwear including boots, and tools.

* Note: Allowable countertop use includes, for example, countertops in bathrooms, dressing areas or garage work-bench areas in private residences, and customer-service countertops in non-food commercial establishments, but does not include countertops in fast-food restaurants or countertops in food processing areas of food manufacturing facilities.

2) Fibers

Resins: Including polyester including "Dacron," polyolefins, polyethylene, polypropylene, polyamide including "Nylon", acrylics, and "Rayon."

Applications: For non-human drinking water and non-food use applications only. Including:

Home furnishings: Mattress cover pads, pillow covers, sheets, blankets, fiberfill for quilts and pillows, curtains and draperies, carpet and carpet underlay, upholstery, wiping cloths, towels, bags, wallcover fabrics, cushion pads, and sleeping bags.

Apparel: Interliners for jackets, shoes, gloves and helmets, uniforms, coats, aprons, sportswear, sleepwear, stockings, socks, hosiery, caps, and undergarments.

Industrial: Brush bristles, artificial leather, filters, book covers, cloth for sails, ropes, tents and other outdoor equipment, and awnings.

3) Coatings

Resins: Including polyester, polyamide, polyimide, polypropylene, polyethylene, polysiloxane, polyethylene copolymer, polyvinyl alcohol, polyvinyl chloride, epoxy, phenolic, polycarbonate, cellulose acetate, polystyrene, polyurethane, acrylic, polymethyl methacrylate, acrylonitrile-butadiene-styrene copolymer, and fluoropolymers.

Types of coatings: water-borne, solvent-borne, 100% solids, and liquid and powder coatings.

Applications: For non-human drinking water and non-food use applications only. Including walls, floors, concrete, siding, roofing shingles, industrial equipment, natural and synthetic fibers and fabrics, packaging, paper products (wall coverings, towels, book covers), barrier fabrics, and glazing for cement tile and for vitreous china used in plumbing fixtures such as toilets, sinks, and countertops not including kitchen countertops or any other food-contact countertops*.

* Note: Allowable countertop use includes, for example, countertops in bathrooms, dressing areas or garage work-bench areas in private residences, and customer-service countertops in non-food commercial establishments, but does not include countertops in fast-food restaurants or countertops in food processing areas of food manufacturing facilities.

4) Adhesives and sealants

Resins: Including polyester, polyamide, polyimide, polypropylene, polyethylene, polysiloxane, polyethylene copolymer, polyvinyl alcohol, polyvinyl chloride, epoxy, phenolic, polycarbonate, cellulose acetate, polystyrene, polyurethane, acrylic, polymethyl methacrylate, acrylonitrile-butadiene-styrene copolymer, and fluoropolymers.

Applications: For non-human drinking water and non-food use applications only. Including adhesives used in the manufacture of wood and plastic composites, adhesives for ceramic tile, wood, rubber and plastic, glazing for windows, grout, and sealants for pipes.

ACCEPTED with COMMENTS in EPA Letter Dated

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticides registered under EPA Reg. No. 69897-4

STORAGE AND DISPOSAL

PROHIBITIONS: Do not store in areas accessible to children. Do not store in places where food or feed may come in contact with the product. Keep away from direct sunlight.

DISPOSAL: Unused material should be disposed of on site or an approved waste disposal facility.

CONTAINER DISPOSAL: Empty container thoroughly and rinse with water. Dispose in regular trash collection.

E. I. du Pont de Nemours & Company, Inc.
DuPont Specialty Chemicals
Chambers Works, JL 4210
Deep Water, NJ 08023

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