

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

OCT 22 1998

Mr. John C. Smedley  
Pettibone Laboratories, Inc.  
554 Ten Rod Road  
No. Kingstown, RI 02852

Dear Mr. Smedley:

Subject: Cryocide 20  
EPA Registration Number 10589-4  
Your Amendment Dated August 7, 1998

This is in response to your amendment to include new Nursery, Greenhouse and Landscape Uses for the subject product.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable subject to the following comments.

Under "General" in "Directions for Use", it is implied that the product will prevent or cure plant diseases. Since the applications are for disinfection of surfaces and not for plant contact, it is unlikely that diseases would be either prevented or cured. Limit the claim to prevention of spread of pathogens or similar clarifying phrase.

On the last page, last line, change to fluid ounces.

Include "Agricultural Use Requirements" box following the first paragraph under "Directions for Use."

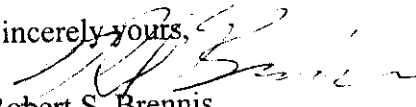
Revise the "Environmental Hazards" statement to read: "This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination 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 sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

If you have any questions, please call Marianne Clark at (703) 308-6381.

Sincerely yours,



Robert S. Brennis  
Product Manager (32)  
Regulatory Management Branch II  
Antimicrobial Division (7504C)

# CRYOCIDE-20

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## Broad-Spectrum HOSPITAL DISINFECTANT

- BACTERICIDAL • FUNGICIDAL (Pathogenic) • PSEUDOMONICIDAL • VIRUCIDAL • TUBERCULOCIDAL • ODOR COUNTERACTANT

- Human Immunodeficiency Virus Type 1 (HIV-1) (AIDS Virus)
- Herpes Simplex Virus Type 1 and 2 • Influenza A2 (Hong Kong - 68) Virus On Inanimate Environmental Surfaces

### ACTIVE INGREDIENTS:

Chlorine Dioxide.....0.72%

Didecyl Dimethyl

Ammonium Chloride .....0.40%

INERT INGREDIENTS: 98.88%

### KEEP OUT OF REACH OF CHILDREN CAUTION

See additional precautionary statements on back..

EPA Reg. No.10589-4 EPA Est. 9150-RI-1

U.S. and foreign Patents Issued and Pending.

### NET CONTENTS

## CRYOCIDE-20

Broad-Spectrum

## HOSPITAL DISINFECTANT

- Bactericidal • Fungicidal (Pathogenic)
- Pseudomonocidal • Virucidal • Tuberculocidal
- Human Immunodeficiency Virus Type 1 (HIV-1) (AIDS Virus)
- Herpes Simplex Virus Type 1 and 2 • Influenza A2 (Hong Kong - 68) Virus • Odor Counteractant On Inanimate Environmental Surfaces

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

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

10589-4

**CRYOCIDE-20** provides broad-spectrum efficiency and economy for commercial, institutional, industrial and agricultural disinfection. CRYOCIDE-20'S ability to OXIDIZE MALODORS offers a definite plus to its disinfecting activity.

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with it's labeling. CRYOCIDE-20 is effective for disinfection of hard non-porous surfaces, at room temperature (20° - 25°) in the presence of moderate amounts of organic soil. Remove gross filth and heavy soil prior to application. For disinfection against Tuberculosis Bacteria - Activate full strength CRYOCIDE 20 by reducing it's pH to 3.0 + 0.05 with 1.0 normal HCl or H2SO4 and allowing to stand for at least 15 minutes. Then using this resulting solution, proceed as directed under "General Disinfection". For general disinfection, apply CRYOCIDE-20 full strength to surface, wetting thoroughly with sponge, mop, spray, or by immersion in solution, and allow to remain wet for 10 minutes, and wipe dry. Although CRYOCIDE-20 destroys HSV-1 and 2 (Herpes virus) and HIV-1 (AIDS virus) within 30 seconds of contact (see Special Instructions below) this contact time will not control other common types of viruses and bacteria.

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV OF SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS** that involve healthcare settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids and in which the surfaces/objects soiled with blood or body fluids can be associated with the transmission of HIV-1: CRYOCIDE-20 destroys HIV-1 on pre-cleaned environmental surfaces/objects previously soiled with blood or other body fluids in 30 seconds contact. **PERSONAL PROTECTION:** The worker should wear disposable latex gloves, gown, mask and eye protection to prevent contamination from soiled items. **CLEANING PROCEDURE:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of CRYOCIDE-20. **CONTACT TIME:** Allow CRYOCIDE-20 to contact treated items for 30 seconds. This contact time will not control other common types of viruses and bacteria. **DISPOSAL OF INFECTIOUS MATERIALS:** Any blood and other body fluids

should be autoclaved and disposed of according to federal, state & local regulations for infectious waste disposal. **SUGGESTED USES:** For use on non-food, hard surfaces such as glass, plastic, chrome, floors, examining tables and toilets in - • Hospitals • Nursing Homes • Institutions & Public Places • Meat Packing Plants • Fish Processing Plants • Poultry Processing Plants • Poultry Hatcheries • Industrial Processing Plants • Dairies • Food Processing Plants. **ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a 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. **STORAGE & DISPOSAL:** Store in original closed container in a cool, dry place away from heat and open flame. **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. For container disposal, triple rinse (or equivalent), then place in trash receptacle. **PRECAUTIONARY STATEMENTS:** Hazards to Human & Domestic Animals - **CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Avoid contamination of food. **STATEMENT OF PRACTICAL TREATMENT - If In Eyes:** Flush with plenty of water. Get medical attention if irritation persists. **If Swallowed:** Drink large quantities of water. Avoid alcohol. Call a physician immediately. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. **In On Skin:** Flush skin with plenty of soap and water.

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# CRYOCIDE 20

## FIRST AID

IF SWALLOWED: Drink large quantities of water. Avoid alcohol. Call a physician. Never give anything by mouth to an unconscious person. Note to Physician: Probable muscosal damage may contraindicate the use of gastric lavage.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

IF ON SKIN: Immediately flush skin with plenty of water.

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

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed, absorbed through skin, or inhaled. Causes slight eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist.

### PERSONAL PROTECTIVE 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: long-sleeved shirt, long pants, and shoes with socks.

**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, should wear: long-sleeved shirt, long pants, and shoes with 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:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately after handling if pesticide gets inside, then wash thoroughly and put on clean clothing. Wash outside of gloves before removing. Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS AND AQUATIC ORGANISMS

This product is toxic to fish. Do not use where fish are important resources.

### STORAGE AND DISPOSAL

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

**Storage:** Store in the original container in a dry, temperature controlled area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling,

contain/re-capture spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

**Pesticide Disposal:** Wastes resulting from the use of this product are toxic and may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Do not re-use empty container. Triple rinse (or equivalent), 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.

#### **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.

#### **General**

Cryocide 20 is a general disinfectant and algicide that has been designed for use in the Nursery, Greenhouse, Landscape & Interiorscape areas of ornamental horticulture. It provides curative and preventative control of a variety of fungal, bacterial and viral plant pathogens, bacterial and fungal leaf rots, slime forming fungi, odor causing bacteria and algae. Cryocide 20 may be used as part of an overall program of disinfection, hygiene, and algae control on a variety of surfaces and in water management equipment and devices.

#### **Work Area Disinfection:**

Cryocide 20 has been designed for Nursery, Greenhouse, Landscape & Interiorscape use where cross contamination may occur between plants or production surfaces. Remove all debris and litter from surfaces prior to application of disinfectant solution. All inanimate surfaces must be thoroughly wetted for proper disinfection. For best results, fresh solution should be prepared daily and when solution becomes visibly dirty. Provide proper ventilation during use.

#### **Work Areas and Benches:**

Mix 9 fl oz of Cryocide 20 per 1 gallon of water and apply as a wetting spray to working surfaces routinely before each work period and again after each plant cycle is completed. Do not apply directly to plant material. Product may also be applied to watering devices such as hoses and watering wands to reduce spread of water borne pathogens. Cryocide 20 is effective in reducing the transfer of fungal and bacterial diseases such as root rots, crown rots, botrytis, and downey mildews.

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basins. For best results, repeat addition as needed or on a routine schedule every 14 days.

**Retention basins and ponds:**

Cryocide 20 can be used for the control of algae in irrigation water recapture systems and retention ponds. Add Cryocide 20 at a concentration of 2-5 ppm (4-9 fl oz per 100 gallons) for the control and prevention of water borne fungal and bacterial pathogens. Repeat application weekly for best results. Do not use where fish are present.

**Decorative pools, fountains, and water displays:**

For initial dosage when algae is present, apply 9-18 fl oz of Cryocide 20 per 100 gallons of water volume to achieve a 5-10 ppm solution. For maintenance, add no more than 1/2 the initial dosage as need or on a routine schedule every 14 days. Do not use when fish are present. When unit is to remain empty or not in use for extended period, apply a wet down spray to the hard surface of the unit at a rate of 1/2 OUNCE per gallon.

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Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
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