

Cross-contamination is of major housekeeping concern not only in hospitals but in schools, institutions, and industry. Bio-Guard 70-12 is formulated for this problem area. It both cleans and disinfects effectively and is virucidal when used as directed. Its hard surface disinfecting action will reduce the hazard of cross-contamination from environmental surfaces.

When used as directed, Bio-Guard 70-12 will deodorize toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and will inhibit the growth of mold and mildew and their odors when used as directed.

This product is economical to use because it is highly concentrated and should be handled with care.

**Precautionary Statements**

**Hazards to Humans and domestic animals**

**DANGER**

Keep out of reach of children. Corrosive. Causes severe eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food.

**STORAGE AND DISPOSAL**

- DO NOT CONTAMINATE WATER FOOD OR FEED BY STORAGE OR DISPOSAL
- OPEN DUMPING IS PROHIBITED
- DO NOT REUSE EMPTY CONTAINER

**PESTICIDE DISPOSAL**

PESTICIDE, SPRAY MIXTURE OR RINSATE THAT CANNOT BE USED OR CHEMICALLY REPROCESSED SHOULD BE DISPOSED OF IN A LANDFILL APPROVED FOR PESTICIDES OR BURIED IN A SAFE PLACE AWAY FROM WATER SUPPLIES

**CONTAINER DISPOSAL**

TRIPLE RINSE (OR EQUIVALENT) AND DISPOSE IN AN INCINERATOR OR LANDFILL APPROVED FOR PESTICIDE CONTAINERS, OR BURY IN A SAFE PLACE.

**GENERAL**

CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES SUCH AS LIMITED OPEN BURNING

**BEST DOCUMENT AVAILABLE**

**BIO-GUARD 70-12**

**Highly Concentrated Germicide  
Based on a Unique Blend of Quaternaries  
with Organic Soil Load Tolerance**  
Disinfectant-Cleaner-Sanitizer-Fungicide  
Mildewstat-Virucide\*—Deodorizer for Hospitals  
and Industrial Use

**Active Ingredients**

Octyl Decyl Dimethyl Ammonium Chloride	3.750%
Dioctyl Dimethyl Ammonium Chloride	1.875%
Didecyl Dimethyl Ammonium Chloride	1.875%
Alkyl (C <sub>14</sub> , 50%, C <sub>12</sub> , 40%, C <sub>16</sub> , 10%) Dimethyl Benzyl Ammonium Chloride	5.000%

**Inert Ingredients**

87.500%  
100.000%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**Statement of Practical Treatment**

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution; or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by the cautious intravenous injection of a short-acting barbiturate drug.

**SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

EPA Registration No. 5185-  
EPA Establishment No. 5185-GA-1  
Net Contents

Manufactured by:

ACCEPTED  
with COMMENTS  
EPA Letter Date:  
**MAY 07 1984**  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. **5185-355**

**Directions for Use**

**GENERAL CLASSIFICATION**

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

Bio-Guard 70-12 is a proven "one-step" cleaner-disinfectant-sanitizer-fungicide-virucide in the presence of moderate amounts of organic soil.

**Apply**—70-12 to walls, floors and other hard (inanimate) non-porous surfaces such as tables, chairs, countertops, sinks and bedframes with a cloth, mop or mechanical spray device so as to thoroughly wet surfaces. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or when use solution becomes visibly dirty.

**Disinfection**—to disinfect hard, non-porous surfaces, add 1/2 oz per gallon of water. Treated surfaces must remain wet for 10 minutes. At this use-level, 70-12 is also virucidal and fungicidal.

**Sanitizing**—To sanitize porous or non-porous, non-food contact surfaces, add 1/4 oz per gallon of water.

1/2 oz. per gallon use-level. The broad spectrum activity of 70-12 has been evaluated in the presence of 5% serum and found to be effective against the following by the AOAC Use-Dilution test:

- Pseudomonas aeruginosa
- Staphylococcus aureus
- Salmonella choleraesuis
- Escherichia coli
- Klebsiella pneumoniae
- Enterobacter aerogenes
- Salmonella schottmuelleri
- Streptococcus faecalis
- Shigella dysenteriae
- Brevibacterium ammoniagenes

**AOAC Fungicidal Test**  
**LONZA FORMULATION 70-12** is effective against Trichophyton mentagrophytes (the athlete's foot fungus) when used on surfaces in areas such as locker rooms, shower and bath areas, exercise areas, dressing rooms, etc.

**Mildewstat Performance.** At 1/2 oz/gallon 70-12 will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard non-porous surfaces (as indicated in general instructions above). Allow to dry on surface and repeat when mildew growth returns.

**Virucidal Performance**  
At 1/2 oz per gallon use-level, 70-12 was evaluated in the presence of 10% serum and found to be effective against the following viruses: Herpes Simplex (a member of the virus family that causes infectious mononucleosis), Vaccinia (representative of the pox viruses), and Influenza A<sub>1</sub> (the Hong Kong flu virus) on inanimate environmental surfaces.

**Sanitizing-Non-Food Contact Surfaces (such as floors, walls, tables, etc.)** At 1/4 oz per 2 gallon use-level 30 second contact time 70-12 is an effective sanitizing agent in waters of up to 600 ppm hardness against Staphylococcus aureus and Klebsiella pneumoniae in the presence of 5% serum on porous and non porous environmental surfaces.

<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b> <b>OFFICE OF PESTICIDES PROGRAMS</b> <b>REGISTRATION DIVISION (HII-567)</b> <b>WASHINGTON, D.C. 20460</b>	EPA REGISTRATION NO.	DATE OF ISSUANCE
	TERM OF ISSUANCE	07 MAY 1984
	NAME OF PESTICIDE PRODUCT	
<b>NOTICE OF PESTICIDE:</b> <input type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)</i>		
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		
<p style="text-align: center;">[ Faint, illegible text ]</p>		
<b>NOTE:</b> Changes in labeling formula 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 U.S. 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.		
A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.		
Registration is in no way to be construed as an indorsement or approval of this product by this 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.		
<p style="text-align: center;">[ Faint, illegible text ]</p>		
<input checked="" type="checkbox"/> ATTACHMENT IS APPLICABLE		
SIGNATURE OF APPROVING OFFICIAL		DATE

5175-2215

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e. Since you declined to submit a child-resistant certification statement and declined to include a service person statement, please delete the following:

schools, institutions (upper left panel)

f. Delete the statements: (lower left panel)

- buried in a safe place
- bury in a safe place

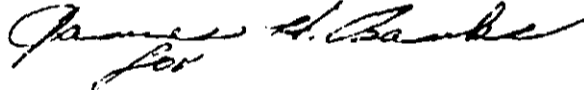
3. The revised Confidential Statement of Formula submitted April 6, 1984, is acceptable and has been placed in your file.

4. The confirmatory data submitted June 20, 1983, are acceptable and have been assigned the Accession Number 251914.

5. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 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.



John H. Lee  
Product Manager (31)  
Disinfectants Branch  
Registration Division (TS-767C)

Enclosures

DCR-04923:Lee:Raven:557-2226:tar:RD-23:4/23/84:Del.5/4/84