

Hillyard Chemical Company
302 North Fourth Street
P.O. Box 909
St. Joseph, MO 64502

25 JAN 1988

Attention: James G. Ross

Gentlemen:

Subject: Pine-O-Cide II Pine Odor Disinfectant Detergent
Deodorant
EPA Registration No. 1658-22
Your Amendment Dated August 17, 1987

This is in response to the above-mentioned amendment on general label revisions, Confidential Statement of Formula (CSF), additional source of supply, and deletion of an active ingredient.

Deleting isopropanol from the active ingredients in the ingredient statement and including it with inert ingredients is acceptable.

Your revised CSF agrees with the label and is acceptable. A stamped copy of your label is enclosed.

An additional source of supply for the active ingredient, quaternary ammonium compound, is acceptable.

Should you have further questions, call Arvella Farmer at (703) 557-6939.

Sincerely yours,

Jeff Kempter
Product Manager (32)
Disinfectants Branch
Registration Division (TS-767C)

Enclosure

92044; I:Farmer;K-5;KEMCO:1/19/88;1/27/88;lf;VO;DG;CB;

CONCURRENCES

SYMBOL	K-767C						
SURNAME	Jeff Kempter						
DATE	1/20/88						

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THIS DISINFECTANT is effective against a wide variety of gram-positive and gram-negative bacteria. It is also an excellent deodorant and is especially effective in controlling odors that are bacterial in origin.

THIS DISINFECTANT mixes with water to form clear, stable use solutions. Use solutions are non-corrosive and non-staining to plastic, vinyl, synthetics, enamel, tile and most common metals. Has a pleasant, pine odor.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
AND DOMESTIC ANIMALS
DANGER**

Causes severe eye and skin damage. Do not get in eyes, on skin or on clothing. Harmful if swallowed. Avoid contamination of food. Wear goggles or face mask and rubber gloves when handling.

ENVIRONMENTAL HAZARDS: This product is toxic to fish. Do not discharge into lakes, streams, ponds, or public water unless in accordance with an NPDES Permit.

PHYSICAL OR CHEMICAL HAZARDS: Do not use or store near heat or open flame.

USE DIRECTIONS

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

APPLICATION INFORMATION

Select the proper dilution of THIS PRODUCT for your use from the directions below. Apply the use solution with a clean mop, sponge, cloth, squeegee, or mechanical scrubber.

Prepare fresh use solutions daily. Do not reuse solutions. Discard solutions when they become visibly soiled. For disinfection, thoroughly wet the surfaces to be treated. Surfaces must remain moist for at least 10 minutes to assure proper germicidal action.

This product may be used for cleaning and disinfecting hard, non-porous, inanimate environmental surfaces (glass, metal, glazed porcelain, linoleum, tile, smooth leather, vinyl, enameled and finished wood surfaces) on walls, floors, appliances and furnishings.

CLEANING

To Clean and Deodorize or to Pre-clean Prior to Disinfection. Depending on the soil level of the area to be cleaned, use 3 to 12 oz. of THIS PRODUCT per gallon of water.

Product Density 8.27/6/gal.

**HILLYARD
PINE-O-CIDE II**

**DISINFECTANT, CLEANER, DEODORANT
Pine Odor**

*Kills Pseudomonas, Salmonella and Staphylococci.
**Virucidal

ACTIVE INGREDIENTS:

Pine oil	3.05%
Alkyl (C ₁₄ , 58%; C ₁₆ , 28%; C ₁₂ , 14%)	
dimethyl benzyl ammonium chloride	1.97%
INERT INGREDIENTS:	94.08%
TOTAL INGREDIENTS	100.00%

*This disinfectant is effective at 6 oz./gal. against Pseudomonas aeruginosa PRD-10, Salmonella choleraesuis ATCC 10708, and Staphylococcus aureus ATCC 6538 when tested by the A.O.A.C. Use Dilution Test Method for pre-cleaned, hard non-porous surfaces.

**This disinfectant is also an effective virucide at 6 oz./gal. for influenza virus, Type A, Brazil and Herpes Simplex Type 2 on inanimate environmental surfaces.

When applied as directed to pre-cleaned hard, non-porous surfaces, this disinfectant also kills the following organisms at 6 ounces per gallon: Candida albicans, Escherichia coli, Streptococcus pyogenes, Enterobacter aerogenes, Shigella sonnei.

This product may be used for cleaning and deodorizing, one-step cleaning and disinfection, or disinfection of pre-cleaned, non-porous, inanimate hard surfaces.

**KEEP OUT OF REACH OF CHILDREN
DANGER:**

(See additional precautions on side panel)

EPA Reg. No. 1658-22

EPA Est. No. 1658-MO-1

**FOR USE IN INDUSTRIAL, COMMERCIAL OR
MEDICAL AREAS ONLY**

Manufactured by:
Hillyard Chemical Company
St. Joseph, MO 64502

NET CONTENTS:

1 U.S. Gal.

Hospitals, Veterinary
oz. of THIS PROD
16 parts water) for
of areas with light
spilled areas, precl
disinfect with THIS
part 18 20 parts water

Industrial areas, Bar
Food and Meat Proc
areas), Other Non-
Then, disinfect with
UCT in a gallon of
Alternatively, clean
7 1/2 oz. of THIS PRO

For deodorizing garb
waste receptacles,
is especially import
perform properly.
of 16 oz. of THIS PR

For mildew contro
disinfection. Repe
when new growth ap

THIS PRODUCT m
scrubbing equipmen

THIS PRODUCT n
surfaces.

STORAGE AND DI
Store only in tight
secure area inaccess
or feed.

Do not reuse em
discarding in trash.

PRACTICAL TRE
contact, immediat
water for at lea
physician. Remov
before reuse.

If swallowed, drink
raw egg whites, g
readily available.
Avoid alcohol. Cal

