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230 PARK AVENUE, NEW YORK 17, N. Y.

NON-WARRANTY OF RESULTS

This material is sold for industrial use only. Our recommendations for its use are based on tests believed reliable. Since the use is beyond our control, neither we nor the manufacturer can guarantee the results, whether or not such use is in accordance with directions. We disclaim any responsibility.

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A. R. T. VANDERBILT CO., N. Y.
AMERICAN PRODUCTS

Vancide 26

COMMERCIAL FUNGICIDE

ACTIVE INGREDIENT

CHLOROPHYLLIN
CHLOROPHYLLIN
CHLOROPHYLLIN
CHLOROPHYLLIN
CHLOROPHYLLIN

INERT INGREDIENTS

CHLOROPHYLLIN
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R.T. VANDERBILT
CO., INC.



ACCEPTED

MAR 30 1959

UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND RODENTICIDE ACT
FOR ECONOMIC POISON REGISTERED
UNDER NO.—1965-25

Vancide® 26

® T.M. REG. U. S. PATENT OFF.

COMMERCIAL FUNGICIDE

ACTIVE INGREDIENT: 96%

LAURYL PYRIDINIUM SALT OF 5-CHLORO-
2-MERCAPTOBENZOTHIAZOLE 80%

OTHER ALKYL PYRIDINIUM SALTS OF 5-CHLORO-
2-MERCAPTOBENZOTHIAZOLE 16%

INERT INGREDIENTS: 4%

—
100%

U. S. PATENT NO. 2,555,024

DIRECTIONS FOR USE:

TO PREPARE CLOTH SUBSTANTIVE BACTERIOSTATIC CLOTHES WASHING DETERGENT INTIMATELY BLEND 0.1 PART VANCIDE 26 WITH 99.9 PARTS GRANULAR CLOTHES WASHING DETERGENT.

CAUTION:

HARMFUL IF SWALLOWED.

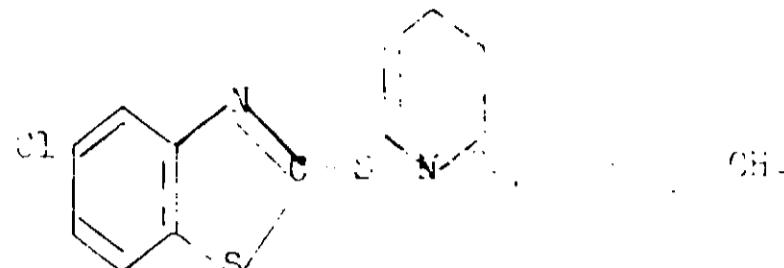


TECHNICAL DATA SHEET

February 9, 1959
Form V20-2

VANODINE[®] Lanolin Co., Paraffin 10%

GENERAL: The Lanolin Pyridinium salt of 5-chloro-2-mercaptobenzothiazole has the following formula:



Chemical Formula: C₂₄H₃₈N₂S₂

Molecular Weight: 442

Physical Specifications: Color and State
Melting Point
Assay

White, waxy, brown solid
101-102°

1. Lauryl pyridinium salt of 5-chloro-
2-mercaptobenzothiazole
2. Other alkyl pyridinium salts of
5-chloro-2-mercaptobenzothiazole

Odor: Slight odor of pyridine

Stability: Non-hygroscopic; stable in storage.

Water Solubility: Approximately 1.0 gm. per ml. water

Oil Solubility: 1.0 gm. in 100 cc. mineral oil

Chemical Properties: It participates in most organic reactions

- 1. Soluble in water
- 2. Solubility in acetone 10 g./100 cc.
- 3. Generally soluble in 100% sulfuric acid, nitric acid, etc.
- 4. Practically insoluble in ether, benzene, etc.

Vapor Pressure: Non-volatile

Acute Oral Toxicity: LD₅₀ 100 mg./kg. (rat, mouse, monkey)

Corrosion: No appreciable damage to skin or mucous membranes after 24 hours exposure to 10% solution.

Physical Form: Aqueous or semisolid emulsion containing 10% Lanolin Pyridinium salt.

Storage: Store in closed containers in a cool, dry place away from direct sunlight.

U.S.P. Grade, U.S.P. 1950.

R. T. VANDERBILT CO. Inc., 230 PARK AVENUE, NEW YORK 17, N. Y.

The recommendations for use of our materials are based upon tests believed to be reliable. However we do not guarantee the results to be obtained.

L.C.T
MAP - 30-1954

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1965-25

TEST REPORT Inhibition of growth of bacteria on fabric by VANCIDE 26 in parts per million arranged by species.

Bacteria	PPM to Inhibit	PPM to Inhibit
Escherichia coli	12	25
Micrococcus pyogenes	6	"
Escherichia coli	6	"
Micrococcus pyogenes var. aureus	6	"
Escherichia coli	12	"
Escherichia coli	12	12
Micrococcus pyogenes	6	"

J. J. Vanderbilt Co., Inc., Penicillin Button Technique
J. J. Vanderbilt Co., Inc., Agar Incorporation technique

VANCIDE 26 SUBSTANTIIVITY TO CLOTH

VANCIDE 26 mixed with a detergent and used in washing clothes is absorbed by the cloth and imparts bacteriostatic qualities to the cloth. VANCIDE 26 was used at 0.1% in "soft" detergent to wash cotton, wool, nylon and rayon cloth. Greatest absorption was on cotton. Procedure and results of biological tests were as follows:

Outline for Washing:

1. In 4 liters of distilled water add 10 g of the detergent-germicide mixture.
2. Heat the solution to 150°F. and add washed, sterile, 10 cm diameter circles of the test fabric.
3. Allow the test fabric to remain in the test solution for 10 minutes, remove and rinse with agitation for 1 minute in four separate beakers containing 125 ml. of water each.
4. Air dry the test fabric sample and place on hardened Nutrient Agar seeie i with 24 hours' nutrient broth cultures of Micrococcus pyogenes var. aureus and Escherichia coli.
5. Incubate at 98°F. ± 2°F. for 24 hours observing for evidence of zones of inhibition of the test organisms.

RESULTS:

Wash all of the test fabrics and running the above procedure on three pieces of fabric more to compare with VANCIDE 26 as the germicide in each case.

Concn. of VANCIDE 26	Zone of Inhibition in Inches							
	Cotton		Wool		Nylon		Rayon	
	M. aureus	E. coli	M. aureus	E. coli	M. aureus	E. coli	M. aureus	E. coli
0.1%	0	2	2.5	tr.	0	0	0	0.1"
0.2%	0	1	1	tr.	0	0	0	0.1"
0.5%	8	4	1	tr.	0	0	0	0.1"
1%	10	5	1.5	tr.	0	0	0	0.1"
2%	10	6	1.5	tr.	0	0	0	0.1"
5%	10	6	1.5	tr.	0	0	0	0.1"
10%	10	6	1.5	tr.	0	0	0	0.1"
20%	10	6	1.5	tr.	0	0	0	0.1"

Legend:
tr. = too small to measure zone around fabric