

# FUNGICIDE Z. V.

For Industrial Use Only — See Technical Service Bulletin

For Other Industrial Use Consult Manufacturer

**WARNING:** May cause irritation of eyes, nose, throat and skin.  
Use of goggles and gloves is recommended.  
Harmful if swallowed. Avoid contact with skin, eyes, or clothing. In case of contact, flush with plenty of water. For eyes, get medical attention.

EPA Reg. No. 3350-11

## ACTIVE INGREDIENTS

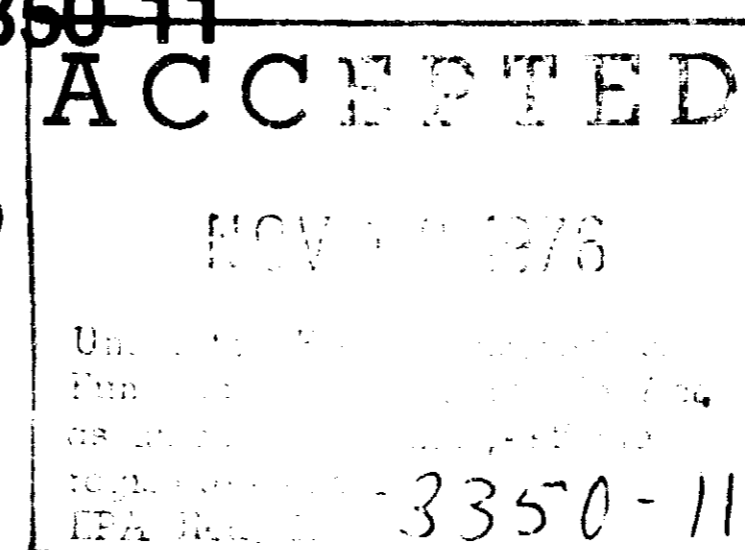
ZIRAM (Zinc Dimethyl Dithiocarbamate)  
Zinc 2 - mercaptobenzothiazole

## INERT INGREDIENTS

TOTAL

GROSS

TARE



18.4%  
1.6%  
80.0%  
100.0%

NET

Do not reuse empty containers. Return to drum reconditioner or destroy by perforating or crushing, and burying in a safe place.

**ARKANSAS CO., INC. - NEWARK, N. J.**

PRESERVATIVE FOR CELLULOSIC TEXTILES

ACCEPTED

JUN 1 1967

UNDER THE FEDERAL INSECTICIDE  
FUNGICIDE AND RODENTICIDE ACT  
FOR A CHEMICAL PESTICIDE REGISTERED  
UNDER NO. 3360-11 SUBJECT  
TO ATTACHED COMMENTS.



Fungicide ZV is an effective mildew and bacterial ~~inhibitor~~ primarily for use on cotton, rayon, and other cellulosic textiles.

The active ingredients are a synergistic mixture of zinc salts of dimethyldithiocarbamic acid and 2-mercaptobenzothiazole.

It is highly effective against cellulose damaging fungi such as *Chaetomium globosum* and *Metarrhizium glutinosum*, as well as against many types of air borne bacteria. For details refer to table under Application.

Fungicide ZV is superior to the G-4 type of fungicides, in that it has practically no odor and does not discolor white materials to which it is applied.

Fungicide ZV does not provide water repellency by itself, but to obtain this property if required on specific applications, the use of Aquarol Y in the same bath is recommended.

PHYSICAL CHARACTERISTICS

Fungicide ZV is a soft white paste which is readily dispersible in warm water (90°-100°F) to give a stable dispersion.

It is nonionic in type and neutral in reaction, having a pH range of 7.0 to 7.5.

It has excellent storage properties under normal atmospheric conditions, but like all emulsions and dispersions should be protected from freezing.

(Continued)

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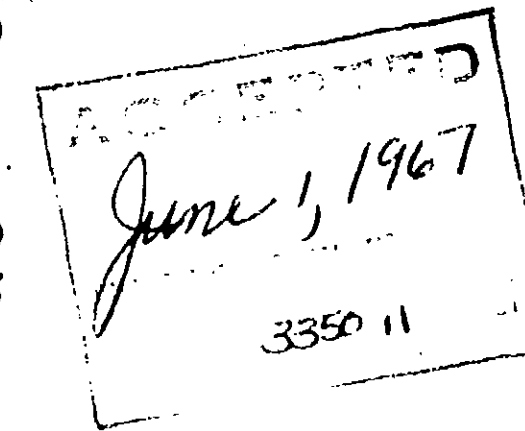
MANUFACTURERS OF *Industrial Chemicals* NEWARK, N. J. 07101

CAUSE ADDRESS "ARKANCHEM"



Partial list showing antimicrobial activity against various fungi and bacteria.

<u>TEST ORGANISMS</u>	<u>MINIMUM PPM TO INHIBIT GROWTH</u>
<u>FUNGI</u>	
Aspergillus niger	500
Chaetomium globosum	250
Metarrhizium glutinosum	250
Trichophyton interdigitale	250
<u>GRAM POSITIVE BACTERIA</u>	
Bacillus subtilis	50
Staphylococcus aureus	25
<u>GRAM NEGATIVE BACTERIA</u>	
Aerobacter aerogenes	500
Pseudomonas aeruginosa	500



The above minimal amounts are estimated on the basis of laboratory tests, and are much lower than the amounts actually recommended in textile mill practice to meet certain government specifications for mildew inhibition.

2/2/67 /emg

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