

ACCEPTED

JUL 17 1972

UNDER THE FEDERAL INSECTICIDE  
FUNGICIDE AND RODENTICIDE ACT  
FOR ECONOMIC POISON REGISTERED  
ED UNDER NO. 10466-24

# STERI-SEPTIC 300 DD

NONIONIC



### ACTIVE INGREDIENTS

bis (tri-n-butyltin) oxide . . . . . 1.06%  
 5-chloro-2-(2,4-dichlorophenoxy) phenol . . . . . 1.60%

INERT INGREDIENTS . . . . . 97.34%

## CAUTION

### KEEP OUT OF REACH OF CHILDREN

This is a concentrate which would be harmful if swallowed. May be absorbed through the skin. Causes skin irritation. Avoid contact with eyes, skin, or clothing. In case of contact, remove contaminated clothing; wash skin with soap and water, flush eyes with clear water for 15 minutes and get medical attention. Launder contaminated clothing before re-use.

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

## DIRECTIONS

For manufacturing use in rendering textiles resistant to the growth of bacteria. It inhibits the development of body odors on treated fabrics. Steri-Septic's bacteriostatic activity will last through at least 75 conventional launderings when applied in accordance with the accompanying directions.

Manufactured By

**THOMSON RESEARCH ASSOCIATES LTD.**  
**53 SHAW STREET**  
**TORONTO 140, ONTARIO**  
**CANADA**

Net Contents: U.S. Gallons

E.P.A. Reg. No. 10466-24

STERI-SEPTIC 300 DD - GENERAL APPLICATION

PRODUCT DESCRIPTION

STERI-SEPTIC 300 DD is an amber aqueous emulsion intended to cover a wide range of potential applications in the textile area. This product, when applied according to recommendations, will last through at least 75 conventional launderings. STERI-SEPTIC 300 DD is supplied in Cationic, Nonionic, and Anionic forms, so that ionic compatibility problems can be avoided.

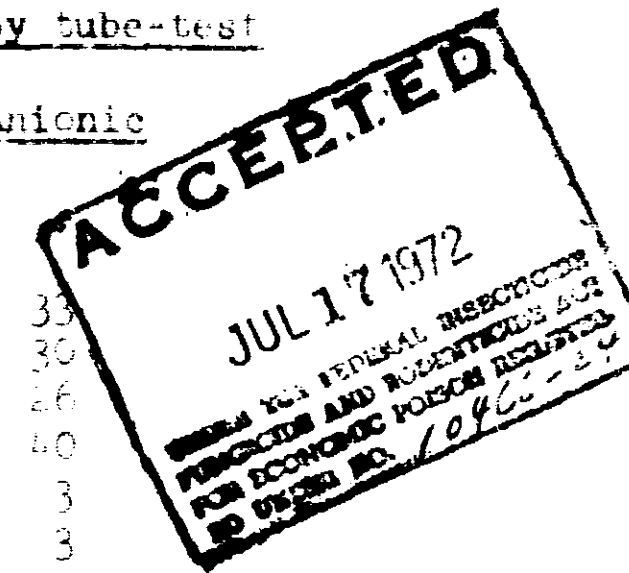
PHYSICAL PROPERTIES

	<u>Cationic</u>	<u>Nonionic</u>	<u>Anionic</u>
Boiling Point	213.6°F	217.0°F	216.7°F
Freezing Point	29.8°F	28.0°F	28.4°F
Specific Gravity at 20°C	0.990	0.980	0.982

BIOLOGICAL ACTIVITY

Minimum Concentration (ppm of product)  
for complete inhibition of growth in  
Broth Cultures as determined by tube-test

<u>Organism</u>	<u>Cationic</u>	<u>Nonionic</u>	<u>Anionic</u>
<u>Gram Positive Organisms</u>			
Bacillus cereus	27	44	33
Bacillus mycoides	8	66	30
Bacillus subtilis	15	29	26
Brevibacterium ammoniagenes	34	39	40
Cory. hofmanni	3	4	3
Staph. aureus P.	3	3	3
Staph. aureus C+	3	3	3
Staph. albus	3	3	3
Strep. faecalis	45	74	50
Strep. pyogenes	3	3	3
Sarcina lutea	8	32	12
Sarcina ureae	4	5	5
<u>Gram Negative Organisms</u>			
Enterobacter aerogenes	33	32	32
Escherichia coli	25	26	25
Herellea vaginicola	3	8	9
Klebsiella pneumoniae	3	3	3
Mima polymorpha	6	6	6
Proteus rettgeri	375	390	375
Proteus vulgaris	22	23	23
Salmonella typhimurium	24	25	24



TOXICITY

The Acute Oral LD<sub>50</sub> of STERI-SEPTIC 300 DD on rats is 12,500 mgm/kg. of body weight.

APPLICATION PROCEDURES

In all cases below an application range of 2.5% to 3.5%, based on the weight of the goods, is quoted. The actual amount used will depend on the degree of biological activity and the durability required on a specific material. This required level can be readily determined by means of a trial run.

1. Fabric

(a) Exhaustion Procedure

STERI-SEPTIC 300 DD should be added at the level of 2.5% to 3.5% based on the weight of the goods. The bath ratio is not critical. STERI-SEPTIC 300 DD can be added in the same bath as softeners or antistatics, with the availability of three ionic forms eliminating any possible ionic compatibility problems.

The STERI-SEPTIC 300 DD should be added to the cold liquor (room temperature), run for 5 minutes cold, and then the temperature raised to 120°F over a period of 15 minutes. The bath is maintained at this temperature for a further 15 minutes, and then dropped.

(b) Padding

The padding bath is prepared so that allowing for the expected pick-up, a level of 2.5% to 3.5% STERI-SEPTIC 300 DD, based on the weight of the goods, is picked up by the fabric.

(c) Co-Treatment With Resins

STERI-SEPTIC 300 DD is compatible with resin systems, it just being necessary to select the required ionic form. The STERI-SEPTIC 300 DD is added into the resin bath, along with the other ingredients, at a level sufficient to give an application of 2.5% to 3.5% (based on the weight of the goods) on the fabric.

2. Yarn

Yarn can be treated in package form also. The STERI-SEPTIC 300 DD is added to the cool liquor at a level of 2.5% to 3.5%, based on the weight of the goods. The liquor is circulated cold (room temperature) for 5 minutes then the temperature increased to 120°F over 15 minutes and held at 120°F for a further 15 minutes following which the liquor is dropped. The STERI-SEPTIC 300 DD can be co-applied with softeners or anti-statics, with the availability of three ionic forms eliminating any possible ionic compatibility problems.

APPLICATION PROCEDURES (Cont'd)

3. Felt

With felt production, the STERI-SEPTIC 300 DD can be sprayed in the picker. The level of STERI-SEPTIC 300 DD in the spray solution depends on the moisture level that is added to the felt, and is adjusted to give a final level of 2.5% to 3.5% on the weight of the felt.

PRECAUTIONS

STERI-SEPTIC 300 DD in the concentrated form should be handled with the care that should be accorded to all biologically active chemicals. Immediate washing is recommended if contact should occur.

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