

ACCEPTED

JUL 17 1972

UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND RODENTICIDE ACT
FOR ECONOMIC POISON REGISTER-
ED UNDER NO. 10466-23

STERI-SEPTIC 300 DD

CATIONIC



ACTIVE INGREDIENTS

bis (tri-n-butyltin) oxide 1.06%
dialkyl* dimethyl ammonium chloride 1.90%
*(alkyl group derived from coconut oil fatty acid)
5-chloro-2-(2,4-dichlorophenoxy) phenol 1.60%
INERT INGREDIENTS 95.44%

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. 10466-23

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

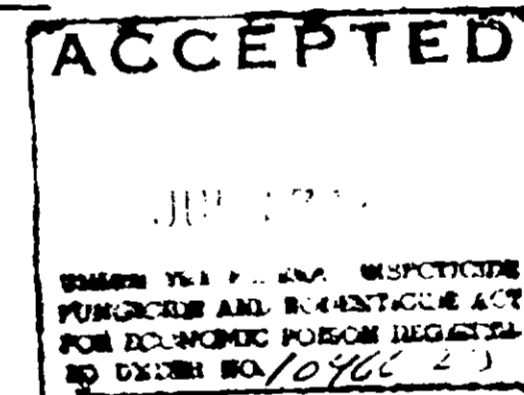
	<u>Cationic</u>	<u>Nonionic</u>	<u>Anionic</u>
Boiling Point	213.6°F	217.0°F	216.7°F
Freezing Point	29.8°F	28.0°F	28.4°F
Specific Gravity at 20°C	0.990	0.980	0.982

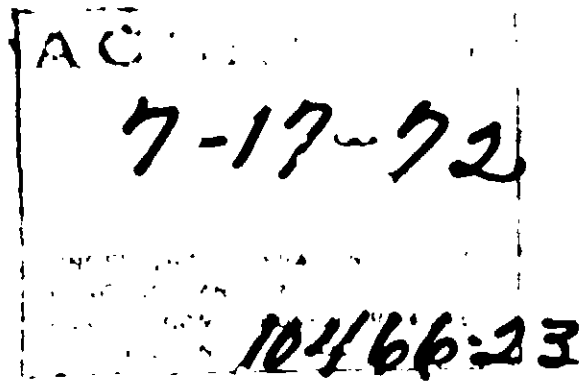
BIOLOGICAL ACTIVITY

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

Organism

	<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. hoffmani	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	23	26	25
Herellea vaginicola	8	8	8
Klebsiella pneumoniae	3	3	3
Mima polymorpha	6	6	6
Proteus rettgeri	37	30	25
Proteus vulgaris	22	23	23
Salmonella typhimurium	4	5	4



TOXICITY

The Acute Oral LD₅₀ 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.

