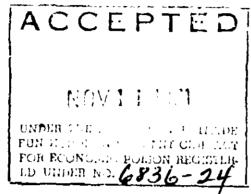


PRODUCT INFORMATION



BARQUAT'4250 and BARQUAT 4280 contain a combination of quaternaries - - alkyl dimethyl benzyl ammonium chlorides and alkyl dimethyl ethylbenzyl ammonium chlorides. This combination gives excellent performance against bacteria in hard water and in a variety of sanitizers, disinfectants, cleaner disinfectants, and deodorizing products. Lonza Research and Technical Service facilities can assist you in the development, formulation, testing, and registration of your product.

CHEMICAL COMPOSITION:

Active Ingredients: n-Alkyl (C_{14} , 60%; C_{16} , 30%; C_{12} , 5%: C1., 5%) Dimethyl Benzyl Ammonium Chlorides

n-Alkyl (C_{12} , 50%; C_{14} , 30%; C_{16} , 17%; C10, 3%) Dimethyl Ethylbenzyl Ammon Chloride

Ethanol

Inert Ingredients:

Water

Average Molecular Weight:

EPA Registration Number

L-85

LONZA INC., Fair Lawn, N.J. 07410 Tel. 201 - 791-7500 Cables - Lonza FairLawnNJ TWX - 719882243 Telux 130 472

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BARQUAT® 4250 BARQUAT® 4280

BARQUAT				
4250	. 4	1280		
25%		40%		
25% 1111	,	40%		
		20%		
50%				
100%	. 1	100%		
384	ĺ	384		
68362	5 683	36-24		

The Phenol Coefficients for BARQUAT 4250/4280 are determined by the Official Methods of Analysis A.O.A.C., Tenth Edition, 1965, Para. 5.001 - 5.006. They are reported on a 100% active quaternary basis.

10 MINUTE KILLING DILUTION

ORGANISM	ATCC #	BARQUAT 4250/4280	PHENOL	PHENOL COEFFICIENT
Staphylococcus aureus	6538	1:65,000	1:60	1083
Salmonella typhosa	6539	1:65,000	1:80	812

AOAC USE-DILUTION TEST

The Use-Dilution procedure for determining the maximum effective dilution for use as a disinfectant is the Official Methods of Analysis, A.O.A.C., Tenth Edition, 1965, Pp. 82-84, Para. 5.007 - 5.011. The following are the effective disinfectant concentrations for BARQUAT 4250/4280 on an active quaternary basis.

ORGANISM	ATCC #	EFFECTIVE C
Staphylococcus aureus	6538	400 ppm ac
Salmonella choleraes is	10708	400 ppm ac

HARD WATER TOLERANCE

The hard water tolerance, or speed of kill, of BARQUAT 4250/4280 is measured by the AOAC Germicidal and Detergent Sanitizer Method (Official Methods of Analysis, Tenth Edition, 1965, Pp. 87-89, Para. 5.023 - 5.032). BARQUAT 4250/4280 passes this test against both Staph. aureus (#6538) and E. coli (#11229) at 850 ppm of water hardiness.

FUNGICIDAL PERFORMANCE

BARQUAT 4250/4280 was tested against Trichophyton interdigitale (#9129) by the AOAC Fungicidal Test (Official Methods of Analysis of the AOAC, Tenth Edition, 1965 - Sections 5.018 to 5.022). A BARQUAT 4250/4280 dilution of 1:850 passed against T. interdigitale. This dilution is on a 100% quaternary basis.

RECOMMENDED USE LEVELS

APPLICATION	RECOMMEND	
General Disinfection	400 ppm a	
General Sanitization *	200 ppm a	

*Food contact surfaces and utensils must be rinsed with potable water before use.

ATCC # EFFECTIVE CONCENTRATION

active quaternary 400 ppm active quaternary

DED USE LEVELS

active quaternary active quaternary

PRODUCT REGISTRATION

Disinfectant and sanitizer products containing Quaternary Ammonium Compounds which are shipped in interstate commerce, must be registered with the Environmental Protection Agency. Applications for registration must be accompanied by five copies of your proposed label and should be sent to the Pesticides Regulation Division, Environmental Protection Agency, Washington, D.C. 20250. Some state agencies also require similar registrations.

The Lonza Technical Service Department can assist you with regard to your product registration. A letter of authorization from Lonza is necessary to gain access to the BARQUAT 4250/4280 registration file.

HANDLING PRECAUTIONS

- DANGER: swallowed. Avoid contamination of food.
- FIRST AID: In case of contact, immediately flush eyes or skin with plenty of water contaminated clothing before reuse.

If swallowed drink promptly a large quantity of milk, egg whites, gelatin solution: or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

NOTE TO injection of a short-acting barbituate drug.

Rinse empty container thoroughly with water and discard it.

The information contained herein is believed to be correct. However, no warranty is made, either expressed or implied, regarding its accuracy or the results to be obtained from the use of such information. No statement is intended or should be construed as a recommendation to infringe any existing patent,

Keep out of Reach of Children. Corrosive. Causes severe eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if

for at least 15 minutes. For eyes, call a physician. Remove and wash

Probable mucosal damage may contraindicate the use of gastric lavage. PHYSICIAN: Measures against circulatory shock as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by the cautious intravenous

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