

Active Ingredients:	n-Alkyl (C ₁₄ , 60%; C ₁₆ , 30%; C ₁₂ , 5%; C ₁₈ , 5%) Dimethyl Benzyl Ammonium Chlorides	40%
	n-Alkyl (C ₁₂ . 68%; C ₁₄ , 32%) Dimethyl Ethylbenzyl Ammonium Chlorides	40%
	Ethanol	20 %
		00%

55 Gallons/Net Weight: 410 lbs.

DANGER:

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 swallowed. Avoid contamination of food.

FIRST AID:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash 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 PHYSICIAN:

EPA Reg. No. 6836-23

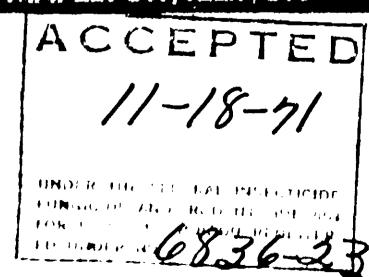
Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by the cautious intravenous injection of a short-acting barbituate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

FOR MANUFACTURING USE ONLY

See Technical Bulletin for Recommended Uses

RINSE EMPTY CONTAINER THOROUGHLY WITH WATER AND DISCARD IT.

LONZA INC. - FAIR LAWN, N.J. - MAPLETON, ILLINOIS



PRODUCT INFORMATION

BARQUAT 4250-Z BARQUAT 4280-Z

BARQUAT 4250 Z and BARQUAT 4280 Z contain a combination of quaternaties—all Aldinethyl benzyl ammonium chlorides and alkyl dimethyl ethylbenzyl ammonium chlorides. This combination gives excellent performance against bacteria in hard water and in a variety of samitizers, desinfectants, cleaner disinfectants—deodorizing products—Lonza Pesearch and Technical Service facilities can assis—The development, formulation, testing, and registration of your product.

	CHEMICAL COMPOSITION:			BARQUAT		
			4250 Z	4280 Z		
		Active Ingredients in Alkyl (C ₁₄ , 60%, C ₁₄ , 30%, C ₁₂ , 5%) C ₁₄ , 5%) Dimethyl Benzyl Ammonium Chlorides	25%	40%		
	CCE	n Alkyl (C₁₂, 68%, C₁₄, 32%) Dimethyl Ethylbenzyl Ammonium Chlorides	25%	40%		
	ָ ק	1 thanol		2017		
977	m	Incit Ingredients				
! • • • • • • • • • • • • • • • • • • •	ט	Water	50%			
			100%	1007		
		Average Molecular Weight	084	384		
		IPA Pepratration Number	6836 26	6836-23		

AOAC PHENOL COEFFICIENTS

6836-23

The Phenol Coefficients for BARQUAT 4250-Z/4280-Z are determined by the Official Methods of Analysis A.O.A.C., Tenth Edition, 1965, Para. 5,001 - 5,006. They are reported cora 100 - active quaternary basis.

10 MINUTE KILLING DILUTION

ORGANISM	ATCC =	BARQUAT 4250Z/4280Z	PHENOL	PHENOL COEFFICIENT
Staphylococcus aureus	6538	1:57,500		958
Salmonella typhosa	6539	1:57,500		719

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-Z/4280-Z on an active quaternary basis.

ORGANISM	ATCC =	EFFECTIVE CONCENTRATION
Staphylococcus aureus	6538	450 ppm active quaternary
Salmonella choleraesais	10708	450 ppm active quaternary

HARD WATER TOLERANCE

The hard water towerance, or speed of kill, of BARQUAT 4250-Z/4280-Z is measured by the AOAC Gerancidal and Detergent Sanitizer Method (Official Methods of Analysis. Tenth Edition, 1965, Pp. 87-89, Para. 5.023 — 5.032). BARQUAT 4250-Z/4280-Z passes this test against both Staph, aureus (#6538) and L coli (#11229) at 750 ppm of water hardness. BARQUAT 4250-Z/4280-Z can be used for sanitizing food utensils and food-processing equipment. It is approved by the FDA (Led. Reg. 121.2547) at 200 ppm of active quaternary, and no rinse is required.

FUNGICIDAL PERFORMANCE

BARQUAT 4250-Z/4280-Z was tested against Trichophyton interdigitale (#9129) by the AOAC Langicidal Test (Official Methods of Analysis of the AOAC, Tenth Edition, 1965 – Sections 5,018 to 5,022). A BARQUAT 4250-Z/4280-Z dilution of 1,800 pas – Laganist 1, interdigitale. This dilution is on a 100 – quaternary basis.

RECOMMENDED USE LEVELS

APPLICATION	RECOMMENDED USE LEVELS		
Count Deant office	1 Oppmed tive quaternary		
Comment Samitary there	The settle of th		

PRODUCT REGISTRATION

Disinfectant and samitizer products containing Quaternary Ammonium Compounds which are shipped in interstate commerce, must be registered with the I-nvironmental 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-Z/4280-Z registration file.

HANDLING PRECAUTIONS

DANGER: Keep out of Reach of Children. Corrosive. Causes severe eve 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 tatal if

swallowed. Avoid contamination of food.

FIRST AID: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash

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.

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 injection of a short-acting barbituate drug.

Rinse empty container thoroughly with water and discard it.

ACCEPTED

The inframation contained herein is believed to be correct. However, no warranty is made either is correctly or implied regarding its accuracy or the results to be obtained from the use of such The first on the statement is intended in \$ 6000 for a restricted as a re-commendation to intringe and in elistrica partez filo