

Product Information

Barquat PQ

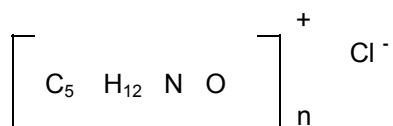
The non foaming biocide.

For use in water circuits and swimming pools.

Safe at use concentrations.

1. Active matter

N,N-Dimethyl-2-hydroxypropylammonium chloride polymer



1.1	CAS No.:	25988-97-0
1.2	EINECS No.:	not applicable
1.3	UN No.:	3082

2. Specifications

2.1	Colour (Apha)	250 max.
2.2	PH (10% aqueous solution)	7.7 - 8.7
2.3	Active ingredient (100% minus amount of water)	59.0 - 61.0 %
2.4	Density aerometer (20°C)	1.17 - 1.19

3. Properties

3.1	Appearance	colourless to slightly yellow liquid
3.2	Odour	odourless to slight smell of ammonia
3.3	Viscosity (Brookfield, sp. 2, 10 rpm)	
3.3.1	at 5°C	2500 mPa·s
3.3.2	at 23°C	1900 mPa·s
3.4	Average Molecular weight	20'000
3.5	Flash point (Abel Pensky cc)	> 100° C
3.6	Surface tension (1% aqueous solution)	56 mN/m
3.7	Ionogenicity	cationic
3.8	Freeze thaw stability	good
3.9	Solubility	soluble in water
3.10	Compatibility	compatible with inorganic builders and nonionic surfactants -not compatible with anionics.
3.11	Setting point	< 5° C
3.12	Foaming property	non foaming

4. Registrations

4.1.	Europe	
4.1.1	Switzerland	BAG T No. 89300 / Toxicity class: none (need not to be classified)
4.2.	USA	Toxic Substances Control Act (TSCA) Inventory

5. Antimicrobial efficacy

5.1 BACTERIA

The bacteriostatic efficacy has been tested according to the DGHM test procedure.

Result: Inhibitory concentration, carried out in

Strain:	a) nutrient solution (CSL)	b) in ringer solution
Staph.aureus	≥ 500 ppm	≥ 0.5 ppm
Pseud.aeruginosa	≥ 500 ppm	≥ 5.0 ppm
Cand. albicans	≥ 500 ppm	≥ 50 ppm
Escherichia coli	≥ 50 ppm	≥ 0.5 ppm

5.2 ALGAE

5.2.1 Algaestatic efficacy according to OECD 201:

Certificate: Dr.U.Noack, Rüdeshheim (D)
Strain tested: Scenedesmus subspicatus CHODAT
Results (after 72 hours):
E_BC₅₀ 0.18 ppm
E_μC₅₀ 0.18 ppm
E_BC₀ 0.032 ppm
E_μC₀ 0.1 ppm

5.2.2 Algaecidal efficacy according to method A.Kuhl (Qualitative growth control in presence of nutrient solution)

Certificate: Lab CSPE, Basel
Strain: Chlorella vulgaris
Result: EC100: 5 - 7 ppm

5.2.3 Certificate: University of Barcelona
Strain: Chlorella vulgaris
Result: Algaestatic concentration: 0.5 ppm
Algaecidal concentration: 1.0 ppm

6. Use areas

Water treatment for cooling systems and air washers.
Algicide for swimming pools.

7. Recommendations to formulate

Incompatible with anionic detergents.

8. Analytical procedure

Methods available upon request.

9. Storage

Product is supplied in polyethylene drums holding 190 kgs net.
It can be stored in the sealed original packaging over a period of two years.

10. Regulatory information

refer to MSDS

11. Toxicological information

refer to MSDS

12. Ecological and ecotoxicological information

refer to MSDS