

Product Information

Bardac-114

Enhanced efficacy by synergism.

Specially selected blends of Dialkyl-Quats and Benzalkonium-Quats.
Broad spectrum activity against both gram positive and gram negative organisms.

Superior fungicide and mildewcide.

Moderate irritant.

Good surfactant and wetting properties.

1. Active matter

Blend of

- Alkyldimethylbenzyl,
- Alkyldimethylethylbenzyl- and
- Dialkyldimethyl ammoniumchloride

1.1 CAS No.: 68391-01-5
68956-79-6
7173-51-5

1.2 UN No.: 1993

2. Specifications

2.1	Appearance at 20° C	clear liquid
2.2	Colour, Apha	100 max.
2.3	pH 1% aqueous solution	6.0 - 8.0
2.4	Assay (Titration, MW 376)	48.3 - 49.9 %
2.5	Free Amine + Amine HCl	1.0 % max.
2.6	Ash	1.0 % max.

3. Properties

3.1	Odour	aromatic, smell of IPA
3.2	Density	0.92 g/ml
3.3	Viscosity (Brookfield, sp.1)	25 mPa·s
3.4	Average Molecular weight	376
3.5	Flash Point (Abel Pensky cc)	29°C
3.6	Surface tension (1% aqueous solution)	27 mN/m
3.7	Ionogenicity	cationic
3.8	Freeze thaw stability	good
3.9	Solubility	soluble in water
3.10	Compatibility	not compatible with anionics
3.11	Setting point	< -30°C
3.12	Water	approx. 43 %
3.13	IPA	approx. 7 %

4. Registrations

4.1	Europe	European Inventory of Existing Chemical Substances (EINECS)
4.1.1	Switzerland	BAG T No. 93 730 / Toxicity class : 4 Date: August 26,1997
4.2	U S A	Toxic Substances Control Act (TSCA) Inventory FDA 21 CFR 178.1010 approval

5. Antimicrobial efficacy

5.1 BACTERIA

The bactericidal efficacy has been tested and shown according to the following test procedures:

DGHM (Germany)

DVG (Germany)

5.2 FUNGI & YEAST

The fungicidal activity of BARDAC-114 has been demonstrated in presence of:

Candida albicans and Trichophyton mentagrophytes

5.3 VIRUS

The virucidal efficacy against Hepatitis B and HIV has been demonstrated by many tests.

6. Other investigations

No formation of cracks on acrylic glass has been observed with a 10 % active product.

7. Use areas

Disinfectant and disinfectant cleaner H, I+I applications.

Disinfectant for acrylic glass in health clubs and industry.

8. Recommendations to formulate

Incompatible with anionic detergents.

Synergistic effects in combination with aldehydes and complexing agents (e.g. EDTA).

9. Analytical procedures

Titration (ISO 2871-2)

10. Storage

Product is supplied as follows:

Type:	iron drum	polyethylene drum
-------	-----------	-------------------

weight net:	50 kgs	190 kgs
-------------	--------	---------

It can be stored in the sealed original packaging over a period of two years.

11. Regulatory information

refer to MSDS

12. Toxicological information

refer to MSDS

13. Ecological and ecotoxicological information

refer to MSDS