

ACTICIDE[®] BAC 50 M

Product Information



ACTICIDE[®] BAC 50 M is a quaternary ammonium based biocide with an optimised alkyl chain length distribution, which can be used for the preparation of disinfectants, cleansers and timber preservation formulations, and for the production of fungicidal/algicidal washes and other similar applications.

Chemical and Physical Characteristics

Composition:	Benzalkonium chloride aqueous solution with the chain length distribution: C ₁₂ (63-75%), C ₁₄ (24-30%), C ₁₆ (0-5%), MW 352.5 g/mol
Appearance:	Clear, colourless to pale yellow liquid
Refractive Index (20 °C):	1.4170 - 1.4300
Density (20 °C):	0.975 - 0.995 g/ml
pH value (10% in water):	6.0 - 9.0
Cationic Activity:	49.0 - 51.0%
Amine value:	max. 1.0 mgKOH/g
Colour (APHA):	max. 100
Solubility:	Fully soluble in water and low molecular weight alcohols
Stability in application*:	Stable over whole pH range and up to 120 °C

Distribuito da:



40013 Castel Maggiore (BO)
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Note: *These characteristics do not constitute a sales specification.*

Biocidal Properties

ACTICIDE[®] BAC 50 M possesses a wide spectrum of antimicrobial efficacy including activity against the following organisms:

Test Organisms		
Bacteria	Moulds/Yeasts	
<i>Bacillus subtilis</i>	<i>Alternaria alternata</i>	<i>Penicillium funiculosum</i>
<i>Enterobacter aerogenes</i>	<i>Aspergillus niger</i>	<i>Penicillium glaucum</i>
<i>Escherichia coli</i>	<i>Aureobasidium pullulans</i>	<i>Poria placenta</i>
<i>Klebsiella pneumoniae</i>	<i>Candida albicans</i>	<i>Saccharomyces cerevisiae</i>
<i>Proteus vulgaris</i>	<i>Chaetomium globosum</i>	<i>Trametes versicolor</i>
<i>Pseudomonas aeruginosa</i>	<i>Cladosporium cladosporoides</i>	<i>Trichoderma viride</i>
<i>Staphylococcus aureus</i>	<i>Coniophora puteana</i>	<i>Trichophyton mentagrophytes</i>
Algae	<i>Coriolus versicolor</i>	
<i>Chlorella vulgaris</i>	<i>Epidermophyton floccosum</i>	
<i>Nostoc commune</i>	<i>Gloeophyllum trabeum</i>	
<i>Scenedesmus vacuolatus</i>	<i>Microsporium canis</i>	

Applications / Use Levels

ACTICIDE[®] BAC 50 M is suitable for the formulation of disinfectants, cleansers and sterilants and as a fungicidal/algicidal wash base for the maintenance or pre-decoration treatment of masonry, brick, timber, plaster, paintwork, etc. It can be used as an algicide/slimicide in swimming pools, industrial water reservoirs and cooling towers and for the preparation of wood preserving formulations intended for primary treatment and secondary preservation (EU/AWPA classes 2, 3 and 4, by dip or vacuum application as well as by spray application in closed tunnels).

The use concentration will depend on the particular application and the required degree of antimicrobial activity. More precise information regarding the concentration required for specific applications, such as timber preservation, can be advised or determined by the local **Thor Microbiological Technical Centre**.

Addition / Compatibility

ACTICIDE® BAC 50 M is a strongly cationic product and therefore incompatible with formulations containing anionic compounds. It may, however, be used with other cationic or non-ionic compounds. Users are therefore strongly advised to carry out compatibility tests or seek further advice from **Thor** prior to initial application. Avoid oxidising agents and anionic compounds.

Prior to use **ACTICIDE® BAC 50 M** should not be diluted or mixed with other chemicals, in order to avoid any negative influences on the active ingredient(s).

Packaging / Storage / Transport / Regulatory Approvals

Packaging:	25 kg and 200 kg plastic drums, 975 kg IBCs
Shelf Life:	24 months from production date when stored at approximately 20 °C
Availability:	Ex-stock in the above packaging
Storage:	Handle product in a closed system. If the product crystallises at low temperatures, it can be restored by slowly warming the product. The effectiveness is not affected. Minimum storage temperature: 10 °C. Protect from frost. Prevent release to the environment by adequate secondary containment and use of appropriate spill control procedures.
Transportation:	ACTICIDE® BAC 50 M is classified as hazardous for transport
Regulatory Approvals:	Detailed information available in the regulatory status document

Safety / Labelling / Toxicology

For detailed information on the toxicology and handling of **ACTICIDE® BAC 50 M** and advice on the labelling of products in which it may be used, please refer to the separate Safety Data Sheet or seek specific advice from **Thor**.

* The data given are time and system dependant.

The information contained in this leaflet is intended to be of assistance to users but is without guarantee. Variations can occur in application and users are advised to conduct their own tests. Suggestions for use neither give nor imply any freedom from patent infringement.

Use biocides safely. Always read the label and product information before use.