
ACTICIDE[®] DDQ 50

Product Information



ACTICIDE[®] DDQ 50 is a quaternary ammonium based biocide with a twin C₁₀ alkyl chain. The product is suitable for use in wood preservation, as a household disinfectant, for the preparation of fungicidal/algicidal biocidal washes and in various other applications.

Chemical and Physical Characteristics

Composition:	A solution of di- <i>n</i> -decyldimethylammoniumchloride, >95% C ₁₀ -C ₁₀ MW 361 g/mol
Appearance:	Clear colourless to pale yellow liquid
Density (20°C):	Approx. 0.9 g/ml
pH value (10% in water):	6.0 – 8.0
Cationic Activity:	50.0 – 52.5%
Colour (APHA):	Max. 100
Amine value:	Max. 2.0 mg KOH/g
Solubility:	Fully soluble in water and low molecular weight alcohols
Stability in Application*:	Stable over the whole pH range and up to 120°C

Note: *These characteristics do not constitute a sales specification.*

Biocidal Properties

ACTICIDE[®] DDQ 50 provides a broad activity spectrum against bacteria, yeasts, moulds, algae and viruses. It has high tolerance to organic soiling and hard water and has good surfactant properties.

Applications / Use Levels

ACTICIDE[®] DDQ 50 is suitable for the formulation of disinfectants, cleansers and sterilants for the food and beverage industries, hospitals, household, industrial kitchen, veterinary and institutional applications as well as a fungicidal/algicidal wash for maintenance or pre-decoration treatment of masonry, brick, timber, plaster, paintwork, etc. It is very effective for the prevention of algae and “slime” in swimming pools, industrial water reservoirs and cooling towers. **ACTICIDE[®] DDQ 50** is particularly recommended 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 and by spray application in closed tunnels.

The concentration required 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® DDQ 50 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.

Prior to use **ACTICIDE® DDQ 50** must not be diluted or mixed with any other raw material to avoid negative influences on the active. Please contact our local **Microbiological Technical Centre** for further information.

Packaging / Storage / Regulatory Approvals

Packaging:	24 kg and 180 kg plastic drum, 875 kg IBC
Shelf Life:	24 months from production date when stored at approximately 20°C
Availability:	Ex-stock in the above packaging
Storage:	Store in original containers. Crystallisation may occur at low temperatures but this is reversible on warming and the product can be used with no loss of activity. Prevent release to the environment by adequate secondary containment and use of appropriate spill control procedures.
Regulatory Approvals:	Detailed information available in the regulatory status document

Safety / Labelling / Toxicology

For detailed information on the toxicology and handling of **ACTICIDE® DDQ 50** 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.