

MIRECIDE - KW/28

BIOCIDE FOR WATER-BASED PAINTS MANUFACTURING

PROPERTIES

MIRECIDE-KW/28 is a biocide based on a organobrominated derivative and isothiazolones in aqueous media, highly effective against gram-positive and gram-negative bacteria, fungi and yeasts, used as a preservative for paints, glues and all kind of water-based emulsions. It prevents as well, at very low doses, from alterations of odour, viscosity, pH, caused by micro-organisms in water-based paints and water-based emulsions.

REGULATIONS

The active isothiazolones are licensed to be used for this purpose under the Food and Drug Administration, (FDA) Code of Federal Regulations sections 175.105, 175.300, 175.320 and 176.170. The same chemical is included in the German Recommendations of BgvV (*Empfehlung*) in chapters XIV 2 f), XXXVI, B VII b), 12.a) and XXXVI/2, G b), 8.a). The brominated derivative is also approved. Under FDA in section 176.170. Under BgvV chapters VIX 2 f) and XXXVI, B VII b), 11.

INSTRUCTIONS FOR USE AND RECOMMENDED DOSES

Depending on the special characteristics of every case, doses ranging from 0,05 to 0,3% of the total amount of the product to be treated, are usually recommended. **MIRECIDE-KW/28** must be added to the water of manufacture or at a moment when it is possible to obtain an even distribution within the product to be preserved. Nevertheless, it is recommended to carry out some previous tests to the treatment in order to determine the optimal dose, as well as, to verify the good compatibility in the media to be treated .

PRODUCT DATA

Appearance	:	Transparent or slightly opalescent liquid.
Colour	:	Yellowish.
Density (20°C)	:	1,07 - 1,11 gr/cc (ASTM-D/891-59.C)
Viscosity (20°C)	:	Below 100 cPs (Brookfield RVsp1, 100 rpm)
(ASTMD/1084 Meth.B)	:	
Refractive index (20°C)	:	1,34 - 1,38 (UNE 55015)
pH (20°C)	:	3 - 5

Freezing point	:	Below 0°C
Boiling point	:	Around 100°C
Solubility	:	Soluble in water and in glycols
VOC (mg/kg)	:	45.000-55.000

END-PRODUCTS LABELLING

Concerning this additive, danger labelling is not required for the products treated with it at a concentration below 0,3% according to the current Directives on labelling. At concentrations upper than 0,3%, the products must be labelled with the symbol and phrase Xi: R43 (may cause sensitisation by skin contact).

HANDLING AND STORAGE

Industrial product. **MIRECIDE-KW/28** must be handled under the recommendations contained in the safety data sheet of the product.

Incompatible substances regarding the chemistry of the product are the oxidizing y reducing agents, mercaptanes (thio-alcohols) and amines. Although **MIRECIDE-KW/28** has an universal compatibility with products with any ionic character, previous compatibility tests in laboratory are recommended.

During storage, keep containers tightly closed away from direct sunlight and heat sources. **MIRECIDE-KW/28** is stable at least one year in storage temperatures above 0°C and below 40°C. During this period, slight flocculations may occur and it can develop a yellowish coloration, but it does not affect the activity of the product.

During this period, turbidity, decrease of pH or a slight precipitation may occur, but it does not affect the activity of the product.

