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MIRECIDE-MIT/23

BIOCIDE FOR THE PRESERVATION OF PAINTS, EMULSIONS AND COLOURING

PROPERTIES

MIRECIDE-MIT/23 is a biocide product based on a blend of isothiazolone derivatives in aqueous media. It is a highly effective antimicrobial agent to avoid the degradation of paints and coatings by effect of a microbiological growth. **MIRECIDE-MIT/23** shows efficiency against gram-positive and gram-negative bacteria and fungi, and it is 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.

INSTRUCTIONS FOR USE AND RECOMMENDED DOSES

MIRECIDE-MIT/23 must be added directly as is it or previously diluted to the water of manufacture or at a moment when it is possible to obtain an even distribution within the product to be preserved. Depending on the special characteristics of every case, doses ranging from 0,2% to 0,4% of the total amount of the product to be treated, are usually recommended. Nevertheless, to carry out previous laboratory tests are recommended in order to assure the good compatibility of the product into the media to trait and to set up the optimal doses to use.

PRODUCT DATA

Appearance	:	Transparent liquid.
Colour	:	Yellowish.
Density (20 ⁰ C)	:	1,02 - 1,04 gr/cc (ASTM-D/891-59.C)
Viscosity (20 ⁰ C)	:	Below 100 cPs (Brookfield RVsp1, 50 rpm) (ASTM-D/1084 Meth.B)
Refractive index (20 ⁰ C)	:	1,346 – 1,351 (UNE 55015)
pH (20 ⁰ C)	:	8 – 9,5
Boiling point	:	Approx. 100°C.
VOC (mg/kg)	:	Free of volatile organic compounds.

MICROBIOLOGICAL ACTIVITY

The minimum inhibitory concentrations (m.i.c.) of **MIRECIDE-MIT/23** against different standard microorganisms strains (laboratory essays) are showed

<u>Microorganism</u>	<u>C.M.I.</u> (ppm)
<i>Staphylococcus aureus</i>	512
<i>Bacillus megaterium</i>	171
<i>Citrobacter intermedium</i>	256
<i>Enterobacter aerogenes</i>	512
<i>Pseudomona aeruginosa</i>	512
<i>Aspergillus niger</i>	256/341
<i>Penicillium caseicollum</i>	256/341
<i>Aureobasidium pululans</i>	256

HANDLING AND STORAGE

Industrial product. **MIRECIDE-MIT/23** must be handled under the recommendations contained in the safety data sheet of the product.

During storage, keep containers tightly closed away from direct sunlight and heat sources. **MIRECIDE-MIT/23** is stable at least for 12 months in storage temperatures above 5°C and below 40°C.

