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## MIRECIDE - M/92

### DISINFECTANT FOR INDUSTRIAL INSTALLATIONS AND DECONTAMINANT FOR THE PAINT SECTOR

#### PROPERTIES

**MIRECIDE-M/92** is an anti-microbial based on formol releaser, highly effective against bacteria, fungi and yeasts which are normally present in paints and all kind of a water-based emulsions and raw materials. It is very effective in disinfection process through dilution at 0,7 % in water. For decontamination process, doses of 0,3% are enough. It is not suitable for the preservative treatment of paints with ecological label.

#### REGULATIONS

The use of formaldehyde as a preservative is provided in Sections 175.105 and 176.170 of FDA.

The use of (ethylenedioxy) dimethanol as preservative is provided in Chapters XIV 2 f), XXXVI, B VII b) and XXXVI/2, II G of BfR.

#### INSTRUCTIONS FOR USE AND RECOMMENDED DOSES

Doses ranging from 0,05 to 0,3% over the weight of the product to be treated are usually recommended. **MIRECIDE-M/92** must be added to the water of disinfection or at a moment when it is possible to obtain an even distribution within the product to be decontaminated. For the disinfection process, the product must be diluted in water at 0,4 % and recirculated by the installation. Nevertheless, it is recommended before the first industrial manufacture, to carry out essays in the laboratory with the additive at different doses in order to select the best, as well as, to verify the good compatibility with the product.

#### PRODUCT DATA

Appearance	:	Transparent or slightly opalescent liquid.
Odour	:	Slightly to formaldehyde.
Density (20°C)	:	1,17 - 1,21 gr/cc (ASTM-D/891-59.C)
Viscosity (20°C)	:	Below 200 cPs (Brookfield RVsp1, 100 rpm) (ASTM-D/1084 Meth.B)
Refractive index (20°C)	:	1,42 - 1,46 (UNE 55015)
pH (20°C) sol. 1% D.I. water	:	6,8 - 7,8
Freezing point	:	Lower than -10°C

Boiling point	:	127 - 129°C
Flash point	:	Around 111°C (open cup)
Solubility	:	Soluble in water and ethanol. Soluble in the most of polar organic solvents.
VOC	:	940.000-950.000

### **MICROBIOLOGICAL ACTIVITY**

The minimum inhibitory concentration data (m.i.c.) of **MIRECIDE-M/92** against different standard strains of micro-organisms (laboratory essays results) are showed

<b><u>Microorganism</u></b>	<b><u>M.I.C.</u></b> (ppm)
<i>Staphylococcus aureus</i>	128
<i>Bacillus megaterium</i>	128/171
<i>Citrobacter intermedium</i>	128
<i>Enterobacter aerogenes</i>	171
<i>Pseudomona aeruginosa</i> :	128/171
<i>Aspergillus niger</i>	350
<i>Penicillium caseicollum</i>	150
<i>Aureobasidium pullulans</i>	5

### **END-PRODUCTS LABELLING**

Concerning this additive, danger labelling is not required for the products treated with it at a concentration below 0,4% according to the current Directives on labelling. From 0,5% to below 1% the products must be labelled with the symbol and phrase Xi: R43 (may cause sensitisation by skin contact). From 1% to 5% Xn: R40-43 (R40, limited evidence of a carcinogenic effect).

### **HANDLING AND STORAGE**

Industrial product. **MIRECIDE-M/92** must be handled according the measures contained in the safety data sheet of the product.

Incompatible substances regarding the chemistry of the product are mainly the oxidizing and reducing agents, strong acids and alkaline materials, copper salts, iron salts and silver salts. Although **MIRECIDE-M/92** shows an universal compatibility with many other substances of any ionic character, previous compatibility assays in laboratory are recommended

**MIRECIDE-M/92** is stable at least for 1 year in storage at room temperature Nevertheless, avoid temperatures above 40°C and below -10°C. During storage, keep containers tightly closed away from sunlight and heat sources.

