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## **MIRECIDE - NB/70**

### **BIOCIDE FOR WATER-BASED PAINTS, RESINS AND GLUES MANUFACTURING**

#### **PROPERTIES**

**MIRECIDE-NB/70** is a preservative product based on a blend of a non-halogenated isothiazolone derivative and an organic bromated compound in glycol media. It is especially adequate for microbiological preservation of emulsions, avoiding the growth of all kind of bacteria and fungi on water-based products, such as glues, paints, softeners, paints, adhesives, cutting oils, auxiliary products in the textile industry, and others.

#### **INSTRUCTIONS FOR USE AND RECOMMENDED DOSES**

**MIRECIDE-NB/70** can be added directly as is it or previously diluted at any moment of the manufacturing process as, thanks to its high level of solubility in water, it incorporates completely. Doses ranging from 0,05% to 0,3% on the total weight of the product to preserve are usually recommended. Nevertheless, it is recommended before to use the product for first time, to carry out previous laboratory assays in order to assure the good compatibility of the product in the media to treat, and to set up the optimal doses to use.

#### **PRODUCT DATA**

Appearance	:	Transparent or slightly opalescent liquid
Colour	:	Yellow
Density (20°C)	:	1,11 - 1,21 g/ml (ASTM-D/891-59.C)
Viscosity (20°C)	:	Below 200 cPs (Brookfield RVsp2, 100 rpm) (ASTM-D/1084Meth.B)
Refractive index (20°C)	:	1,45 - 1,49 (UNE 55015)
pH (20°C) 1% DI water	:	4 - 6
Flash point	:	Above 100°C (closed cup)
Solubility	:	Soluble in water and glycols
V.O.C.	:	885.000 – 895.000

## **MICROBIOLOGICAL ACTIVITY**

The minimum inhibitory concentrations (m.i.c.) of **MIRECIDE-NB/70** against different microorganisms strains (laboratory Assays) are showed:

<b><u>Microorganism</u></b>	<b><u>C.M.I. (ppm)</u></b>
<i>Staphylococcus aureus</i>	64
<i>Bacillus megaterium</i>	32/64
<i>Citrobacter intermedium</i>	128
<i>Enterobacter aerogenes</i>	171
<i>Pseudomona aeruginosa</i>	128
<i>Aspergillus niger</i>	100
<i>Penicillium caseicollum</i>	100
<i>Aureobasidium pullulans</i>	75/100

## **HANDLING AND STORAGE**

Industrial product. It is recommended to handle **MIRECIDE-NB/70** under the measures described on the safety data sheet of the product.

Avoid contact with strong oxidizing agents. During storage, keep drums tightly closed away from sunlight and heat sources. Recommended storage temperatures range between 0°C and 40°C. Observing these requirements the shelf life of the product will be 12 months. As time goes by, slight deposits of the product may occur which do not affect its activity.



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