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Pol. Ind. Can Parellada
08228 - TERRASSA
(Barcelona) España

Tel.: (+34) 937311261
Fax.: (+34) 937314280
e-mail:comercial@lamirsa.com
www.lamirsa.com

MIRECIDE - TF/500

BIOCIDE OF FUNGICIDAL EFFECTS FOR WATER-BASED PAINTS

PROPERTIES

MIRECIDE-TF/500 is a product based on an halogenated organic carbamate in organic media, specially indicated in order to provide fungicide power to all sort of paints, both water-based and anhydrous ones (varnishes).

MIRECIDE-TF/500 is highly resistant to leaching once the paint has been applied and it has dried, what makes it specially appropriate for this purpose. **MIRECIDE-TF/500** can be added at any phase of the manufacturing process. It is necessary to ensure its total incorporation by an adequate stirring.

It is suitable for the fungicide treatment in paints and varnishes with ecologic label at any using dosage.

REGULATIONS

The chemical active of **MIRECIDE-TF/500** is licensed in USA under the Food and Drug Administration (FDA), Code of Federal Regulations section 175.105 for to be specifically used in fungicidal applications.

INSTRUCTIONS FOR USE AND RECOMMENDED DOSES

The recommended dose range in order to achieve a good conservation paints is 0,1 - 0,5% on total weight of paint. The recommended dose range in order to obtain an optimal fungicide paint vary from 0,4 to 1,3% on total weight of the finished paint formula. Nevertheless, it is recommended to carry out prior of the first industrial manufacturing, some tests of efficiency at different doses in the laboratory, in order select the best dose in front of efficacy, and to verify the good compatibility of the additive in the media to use.

PRODUCT DATA

Appearance	:	Transparent or slightly opalescent liquid.
Colour	:	Yellow.
Density (20°C)	:	1,12 - 1,16 gr/cc (ASTM-D/891-59.C)
Viscosity (20°C)	:	Below 300 cPs (Brookfield RVsp1, 100 rpm) (ASTM-D/1084 Meth.B)
Freezing point	:	Below -10°C
Flash point	:	130 - 140°C (closed cup)
Boiling point	:	231°C

Solubility	:	Dispersible in water. Dispersible in aromatic solvents and alcohols. Dispersible in water-based paints and solvent based paints.
VOC	:	685.000 – 695.000 mg/kg

MICROBIOLOGICAL ACTIVITY

The minimum inhibitory concentration data (m.i.c.) of **MIRECIDE-TF/500** against different strains of micro-organisms (laboratory essays) are the following

<u>Microorganism</u>	<u>M.I.C.</u> (ppm)
<i>Staphylococcus aureus</i>	250
<i>Bacillus megaterium</i>	250
<i>Citrobacter intermedium</i>	1.000/2.000
<i>Enterobacter aerogenes</i>	5.000/10.000
<i>Pseudomona aeruginosa</i>	> 10.000
<i>Aspergillus niger</i>	1,5
<i>Penicillium caseicollum</i>	1,5/2,5
<i>Aureobasidium pullulans</i>	3,5
<i>Alternaria alternata</i>	2,5/5
<i>Penicillium funiculosum</i>	2,5
<i>Trichoderma viride</i>	7,5

END-PRODUCTS LABELLING

Danger labelling is not required for the products treated with **MIRECIDE-TF/500** at usual concentrations of use.

HANDLING AND STORAGE

Industrial product. **MIRECIDE-TF/500** must be handled with care under the usual hygiene industrial measures. It is recommended to follow the indications which are described on the safety data sheet of the product. Although the product freezes at temperatures below -10°C, long-lasting storage at temperatures lower than -5°C may cause crystallisations, but the product is easy recovered by stirring at room temperature.

During storage, keep the product in the origin drums tightly closed away from heat sources, in well cool ventilated places, at temperatures from -5 - 40°C. Under these conditions the shelf life of the product is 6 months.

