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MIRECIDE - BNP

PRESERVATIVE FOR COSMETIC INDUSTRY

PROPERTIES

MIRECIDE-BNP is a wide spectrum biocide and fungicide, usually applied in the preservation of cosmetic products, softeners, shampoos and household detergents. Its use as preservative in cosmetic products is licensed according to the European Community and it is included in the cosmetic ingredients inventory under INCI nomenclature.

INSTRUCTIONS FOR USE AND RECOMMENDED DOSES

MIRECIDE-BNP can be used as it is or previously diluted in water. Use doses depend on the characteristics and requirements of the product to preserve, but as general rule, doses range from 0.01 to 0.1% are usually enough. Nevertheless, it is recommended to carry out before the first industrial manufacture, essays in the laboratory with the additive at different doses in order to select the optimal dose, as well, as to verify the good compatibility with the media to treat.

DENOMINATION INCI/CAS N°

2-Bromo-2-nitropropane-1,3-diol/ 52-51-7

PRODUCT DATA

Appearance	:	Non lumpy crystalline solid powder.
Colour	:	Whitish.
pH (20°C) sol. 1%	:	5 - 7
Solubility	:	Soluble in water.



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MICROBIOLOGICAL ACTIVITY

The minimum inhibitory concentration data (m.i.c.) of **MIRECIDE-BNP** against different standard microorganisms (on essays of laboratory) are showed below

<u>Microorganism</u>	<u>M.I.C.</u> (ppm)
<i>Staphylococcus aureus</i>	15/25
<i>Bacillus megaterium</i>	15/25
<i>Citrobacter intermedium</i>	15/25
<i>Enterobacter aerogenes</i>	15/25
<i>Phormidium innundatum</i>	25
<i>Aspergillus niger</i>	10/15
<i>Penicillium casecollum</i>	10
<i>Aureobasidium pullulans</i>	10/15

HANDLING AND STORAGE

Industrial product. Handle with care. See on the safety data sheet before use.

Water solutions of **MIRECIDE-BNP** are stable at acidic pH values. High temperatures and alkaline conditions may cause product decomposition. Presence of acid sulphide or disulphide groups can reduce its activity.

Avoid contact with oxidizing substances. Keep containers away from sunlight and wet environment. During storage keep containers tightly closed. Recommended temperatures are between 0°C and 40°C. Under these conditions, the shelf life of the product is 2 years.



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