



## ADICIDE MBL

*Biocide to avoid bacterial degradation of cosmetic products*

### PROPERTIES

**ADICIDE MBL**: is a mixture of 1,2-benzisothiazol-3(2H)-one and 2-methyl-2H-isothiazol-3-one over a magnesium nitrate solution. The presence of magnesium salts enhances the antibacterial power of BIT/MIT combination, the product has better stability and the oxidation processes are quenched. The active matter is 2.5% of each of the biocides:

1,2-benzisothiazol-3(2H)-one	2.5%
2-methyl-2H-isothiazol-3-one	2.5%

It is indicated for formulations of beauty care and cosmetic products due to the strong antibacterial activity in aqueous systems keeping mild irritating properties for human skin in typical dosages.

### TECHNICAL SPECIFICATIONS

ASPECT:	Brownish aqueous liquid
DENSITY (at 20°C):	1,33 g /cc +/- 0,20
SOLUBILITY IN WATER (to 20 °C):	full
SCENT	Acidic smell
pH	3+/-0,5
FREEZING POINT	< -5°C
STABILITY TEMPERATURE	>60° C
STABILITY pH	5-11
RED-OX Potential	70-200 mV (water solution 20°C)
BIT/MIT CONTENT	5 % +/- 0.1%
MAGNESIUM SALTS (as stabilizer)	21 % máx

### APPLICATIONS:

**ADICIDE MBL** can be used in cosmetics, soaps, hair conditioners, shampoos and toiletries like shower gels, cleansers and surfactants. The stability and lifetime of the product has been increased by the addition of magnesium salts as stabilizers.

**ADICIDE MBL** is fully compatible with the rest of materials in cosmetic formulations regardless of their ionic nature.

### ADDITION OF PRODUCT:

**ADICIDE MBL** IS NOT ADDED IN THE FIRST STAGE OF THE PRODUCTION PROCESS. It is recommended to add **ADICIDE MBL** in the cooling process of product manufacture avoiding temperatures over 60°C.

ADITIVOS CERAMICOS, S.L. Certifies that the contained of this technical data sheet is certain, but warns that the conditions of application of the product depend on the nature and composition of the whole mixture of products added



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### **DOSAGE**

The maximum dose for **ADICIDE MBL** in rinse-off products like gels, soaps and shampoos is 0,05%. In the case of leave-on products the maximum level of usage is 0,015%. For new formulations, it is recommended a lab test to adjust the optimum rate.

### **PRESENTATION**

This product can be supplied in drums of 25 and 120 Kg, and in IBC tanks of 1000 Kg

### **HANDLING AND STORAGE**

**ADICIDE MBL** keeps for a long time when stored in tightly closed original package.

Wear protective gloves (0,5 mm thickness PVC), safety glasses and complete suit protecting against chemicals. Avoid vapour inhalation. Check safety data sheet of the product before any industrial operation.

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