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## **MIRECIDE - KW/24**

### **PRESERVATIVE FOR COSMETIC INDUSTRY**

#### **PROPERTIES**

**MIRECIDE-KW/24** is an antimicrobial agent based on stabilised isothiazolinones (CMI/MI) in aqueous media. It is a highly active preservative against gram-positive and gram-negative bacteria, fungi and yeasts. It is used as preserver for liquid detergents, softeners, cosmetic products and all kind of water-based emulsions preventing from alterations caused by microorganisms.

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

**MIRECIDE-KW/24** can be added at any stage of the manufacturing process in a system point where a good agitation is ensured. The optimal application is up to a pH value of 7.5 - 8. Recommended doses of **MIRECIDE-KW/24** range from 0.05 to 0.1% on the total weight of the product to treat, according to its specific characteristics and requirements. Nevertheless, it is recommended to carry out before the first industrial manufacture, essays in the laboratory with the additive in order to select the optimal dose, as well, as to verify the good compatibility with the media to treat.

#### **DENOMINATION INCI / CAS N°**

Methylisothiazolinone / 2682-20-4  
Methylchloroisothiazolinone / 26172-55-4  
Magnesium Nitrate / 10377-60-3  
Magnesium Chloride / 7786-30-3  
Aqua / 7732-18-5

#### **PRODUCT DATA**

Appearance	:	Transparent liquid
Colour	:	Colourless to slightly yellowish
Odour	:	Gentle, slightly pungent
Density (20°C)	:	1.07 – 1.11 g/ml (ASTM-D/891-59.C)
Viscosity (20°C)	:	Below 15 cPs (Brookfield RVsp1, 100 rpm) (ASTM-D/1084 Meth.B)
Refractive index (20°C)	:	1.34 – 1.37 (UNE 55015)
pH (20°C)	:	2 – 4
Freezing point	:	Below -5°C
Solubility	:	Soluble in water, short-chain alcohols and glycols at 20°C



## MICROBIOLOGICAL ACTIVITY

The minimum inhibitory concentration data (m.i.c.) of **MIRECIDE-KW/24** against different standard microorganisms (on essays of laboratory) are shown below

<u>Microorganism</u>	<u>C.M.I.</u> (ppm)
<i>Bacteria gram+</i>	150/600
<i>Bacteria gram-</i>	50/600
<i>Fungi</i>	250/600
<i>Algae</i>	10/100

## HANDLING AND STORAGE

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

Incompatible substances are the oxidizing and reducing agents, mercaptanes and amines. Although can be expected a good compatibility of the product with surface-active agents and emulsifiers, it is recommended to carry out previous laboratory compatibility tests.

During storage keep containers tightly closed away from sunlight and heat sources. **MIRECIDE-KW/24** is stable at least for 12 months under storage temperatures range from -5°C to 35°C. During storage a pH decrease may occur and light sediments may appear, which does not affect the product activity.



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