



Bayamondo
(S.R.L)

BAYA MBT 10

PRODUCT FEATURES

BAYA MBT10 are formulations of **1,2-Benzisothiazolin-3-one (BIT)** with **Methylisothiazolinone (MIT)** with the contents **4.95% BIT** and **4.95% MIT**.

CAS No.: 2634-33-5 and 2682-20-4

Synonyms: BIT + MIT

- ▶ ideal for use in aqueous and water miscible systems
- ▶ broad antimicrobial spectrum against bacteria, fungi and yeasts
- ▶ free from formaldehyde, formaldehyde releasers, phenolics or heavy metals
- ▶ excellent chemical stability
- ▶ non-volatile
- ▶ excellent long-term efficacy
- ▶ good compatibility with other raw materials

BAYA MBT10 meet the highest purity standards.

BAYA MBT10 penetrate the cells of microorganisms, react with vital parts of the cell and inactivate important substrates and enzymes necessary to normal cell function. These relatively unspecific reactions prevent the development of microbial adaptation.

BAYA MBT10 prevent microbial deterioration of products and the resulting effects such as:

- phase separation
- odour build up
- gas build up
- changes in viscosity
- build up of health threatening toxins



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Minimum inhibition concentrations:

		MIC CMI / ppm	MIC BIT / ppm	MIC MIT / ppm	MIC BIT+MIT (1:1) / ppm
Bacteria	<i>Pseudomonas aeruginosa</i>	9	50	40	10
	<i>Pseudomonas putida</i>		50		
	<i>Escherischia coli</i>	9	8	20	8
	<i>Enterobacter cloacae</i>		16		
	<i>Staphylococcus aureus</i>	11.5	8	100	15
	<i>Streptococcus lactis</i>		3		
	<i>Proteus vulgaris</i>	9	9	25	5
Fungi, Yeasts	<i>Aspergillus niger</i>	9	70	750	10
	<i>Chaetomium globosum</i>	9	80		
	<i>Penicillium funiculosum</i>	11.5	25	200	11
	<i>Saccharomyces cervisiae</i>	9	50	150	10
	<i>Candida albicans</i>	9	20	100	10

APPLICATION NOTES

BAYA MBT10 are highly suitable for the preservation of a wide variety of aqueous products due to its good properties:

- Good stability at a broad range of pH
- Good temperature stability

Experience shows that compatibility with most products and raw materials is excellent, but we recommend testing the compatibility in individual formulations. The optimum pH is 2 - 10.

Under normal use patterns, the following concentrations (w/w) are sufficient in most applications:

BAYA MBT10 (glycolic solution): 0,1 - 0,4 %

Storage conditions: Prevent from freezing and keep away from high temperatures and direct sunlight. Store in original package at room temperature.

Packaging: 25 kg, 200 kg, 1000 kg

Shelf life: BAYA MBT10 : 18 months



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Recommended Applications:

BAYA MBT 10 preservative

Product used for the preservation of manufactured products, other than foodstuffs or feeding stuffs, in containers by the control of microbial deterioration to ensure their shelf life.

- Cosmetic and Detergents
- Hair Care products
- Adhesives, Glues
- Kaolin-, chalk-, starch-slurries
- Cleaning- and household Products
- wax emulsion
- building materials
- fountain solutions
- printing inks
- polymer dispersions
- sealants
- Pigment slurries
- Car care products
- concrete additives
- Leather and textile

PT 12 - Slimicides

Products used for the prevention or control of slime growth on materials, equipment and structures, used in industrial processes, e.g. on wood and paper pulp, porous sand strata in oil extraction.

- Slimicide
- Pulp and cellulose production
- Papermaking
- oil production
- Fracking
- Flotation

Technical Specification:

Spect: aqueous liquid
Density (at 20°C): 1,015-1.040 g /cc
Solubility in water (to 20 °C): full
PH Range: 2 - 10
Boiling Point : 100°C
Stability PH : 3-11
RED-OX Potential 70-200 mV (water solution 20°C)
BIT/MIT Content : 10% +/- 0.1%



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REGULATIONS

EU:	For the active ingredients the transitory periods of the biocidal products regulation 528/2012/EC are valid. Intended applications: PT 6, 12, 13. <u>Make sure that the biocide is allowed for any further downstream uses.</u>
EU-national:	please ask us
Australia:	The active ingredients are listed in the inventory of chemical substances AICS
Canada:	The active ingredients are listed in the inventory of chemical substances DSL
China:	The active ingredients are listed in the inventory of chemical substances IECSC
Japan:	The active ingredients are listed in the inventory of chemical substances ENCS
Korea:	The active ingredients are listed in the inventory of chemical substances KECI
New Zealand:	The active ingredients are listed in the inventory of chemical substances NZIOC
Philippines:	The active ingredients are listed in the inventory of chemical substances PICCS
Taiwan:	The active ingredients are listed in the inventory of chemical substances NECI
USA:	The active ingredients are listed in the inventory of chemical substances TSCA The active ingredients meet FDA 21CFR 175.105 (adhesives with food contact) 176.170 (components of paper and paperboard in contact with aqueous and fatty food)

Our recommendations regarding our products are given in good faith, but imply no corresponding liability. Our Conditions of Sales and Supply apply in all other respects.

Use biocides safely. Always read the label and product information before use

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