



parmetol® MBX

Preservative for household products

- Immediately acting preservative with longterm protection
- Fast germ count reduction e.g. for contaminated process water
- Production hygiene integrated in-can preservative
- Synergistic working combination of benzisothiazolone (BIT), methylisothiazolon (MIT) and Laurylamine Dipropylenediamine
- Free of formaldehyde, AOX and alkylphenoethoxylates (APEO)

Active substance			
INCI name	EINECS-Name:	CAS-No.	EC-No.
Benzisothiazolinone	1,2-Benzisothiazol-3(2H)-one	2634-33-5	220-120-9
Methylisothiazolinone	2-methyl-2H-isothiazol-3-one (MIT)	2682-20-4	220-239-6
Laurylamine Dipropylenediamine	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (Diamine)	2372-82-9	219-145-8

Physico-chemical properties	
Colour	light yellow - orange
Form	Liquid
Odour	amine-like
Density (20 °C)	1.009 - 1.021 g/ml
Refractive index	1.345 - 1.357
Initial boiling point	ca. 100 °C
Flash point (ISO 2719)	> 100 °C
Flow time (DIN 53211 - 20 °C)	< 15 s
Viscosity (20 °C)	3 mPa*s
Water solubility (20 °C)	in all proportions
VOC-Content to Directive 2004/42/EC	none
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pH (concentrate)	ca. 8 - 9

Fields of application

The optimum use level should be evaluated by means of a repeated challenge test (e.g. at Vink Technical support department).

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

	Recommended dosage	
Washing-up liquids	1.0 - 2.0 g/kg	(0.10 - 0.20 %)
Detergent	1.0 - 2.0 g/kg	(0.10 - 0.20 %)
Liquid detergents, highly alkaline	1.0 - 4.0 g/kg	(0.10 - 0.40 %)
Liquid laundry detergents	1.0 - 4.0 g/kg	(0.10 - 0.40 %)
Fabric softener	0.5 - 2.0 g/kg	(0.05 - 0.20 %)
Liquid scouring cleansers	1.0 - 4.0 g/kg	(0.10 - 0.40 %)
Window cleaners	1.0 - 2.0 g/kg	(0.10 - 0.20 %)
Wet wipes	1.0 - 2.0 g/kg	(0.10 - 0.20 %)
Wax emulsions	1.0 - 4.0 g/kg	(0.10 - 0.40 %)
Other uses	Kindly contact us.	

Indications for use

Solubility(ies)	Fully soluble in water
Recommended use pH range	3 - 10
Maximum use temperature	max. 80 °C
Additional advice	If possible, to be incorporated at an early stage during production. Cleaning of equipment is possible by rinsing with water.

Microbiological efficacy

The efficacy of the product has been tested against the following microorganisms according to DGHM (German Society for Hygiene and Microbiology). Determination of the minimum inhibitory concentration in the serial dilution test produced the following values (MIC in % of the product):

Bacteria (gram-negative)	MIC	Bacteria (gram-positive)	MIC	Yeasts	MIC
<i>Escherichia coli</i>	0.031	<i>Kocuria rhizophila</i>	0.008	<i>Candida albicans</i>	0.016
<i>Pseudomonas aeruginosa</i>	0.031	<i>Staphylococcus aureus</i>	0.031		
				Moulds	MIC
				<i>Aspergillus brasiliensis</i>	0.063
				<i>Penicillium pinophilum</i>	0.016
				<i>Fusarium oxysporum</i>	0.016



parmetol® MBX

Compatibility*		
	compatible	to be avoided
concentrate	high-alloyed stainless steel (e. g. 1.4571), steel, ethylene-propylene-terpolymer (EPDM), nitrile rubber, fluorinated rubber (FKM), natural rubber, polyethylene, polyvinylchloride, polystyrene (PS)	copper, brass, sealants and plastics other than mentioned
aqueous dilution (0.2 %)	No significant difference to water	Water incompatible materials

*Compatibility has to be proved in each case

Labelling	
Hazard statements	H314, H317, H332, H410
Precautionary statements	P273, P280, P301 + P330 + P331, P303 + P361 + P353, P305 + P351 + P338, P310
Labelling	Danger - GHS05 (Corrosion), GHS07 (Exclamation mark), GHS09 (Environment)
	For further hazard instructions and safety advice please refer to the actual material safety data sheet.

Environmental information
 parmetol® MBX contains only biodegradable components. Dilutions of parmetol® MBX do not normally interfere with the operation of waste water treatment plants. The canisters and drums used by Vink are made of polyethylene (HDPE) and are labelled accordingly. The 1000 kg containers are covered by a return scheme that ensures collection of the used containers free of charge and appropriate reuse all over Europe. The labels are made of PE. Vink packaging materials contain no PVC and can be recycled. For further information please ask for our detailed environmental report.

Listings and approvals of active ingredients
EINECS / ELINCS (Europe)
TSCA (USA)
DSL / NDSL (Canada)
PICCS (Philippines)
AICS (Australia)
IECSC (China)
NZIoC (New Zealand)
CSNN (Taiwan)
KECI (Corea)

Transport & Storage	
Dangerous goods	Yes
UN number	1760
Packaging group	II
Package sizes	25 kg, 200 kg, 1000 kg
Shelf life	18 months
Storage	Protect from frost, heat and direct sunlight. Store at room temperature in the original container.

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.

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