

# parmetol<sup>®</sup> MBS

## Highly-effective in-can preservative without formaldehyde and halogens

- Suitable for preservation of a broad range of water based products
- Free of chloromethylisothiazolone, formaldehyde, formaldehyde depots and other aldehydes
- Free of VOC and phenols
- Broad spectrum of efficacy
- Approved for Ecolabel, e.g. "Blue Angel" or "European Flower"

### Active substance

EINECS-Name:	CAS-No.:	EC-No.:
1,2-Benzisothiazol-3(2H)-one	2634-33-5	220-120-9
2-Methyl-2H-isothiazol-3-one	2682-20-4	220-239-6

### Physico-chemical properties

Colour	yellow
Form	Liquid
Odour	characteristic
Density (20 °C)	ca. 1.013 - 1.025 g/ml
Refractive index (20 °C)	1.340 - 1.352
Initial boiling point	ca. 100 °C
Flash point (ISO 2719)	> 100 °C
Flow time (DIN 53211 - 20 °C)	< 15 s
Water solubility (20 °C)	in all proportions
VOC-Content to Directive 2004/42/EC	none
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 schülke Technical and Microbiological dept). Limits for labelling can be seen from the separate schülke labelling sheet.

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

	Recommended dosage	
Dispersion paints	1.0 - 4.0 g/kg	(0.1 - 0.4 %)
Textured coatings/ plasters	1.0 - 4.0 g/kg	(0.1 - 0.4 %)
Polymer dispersions	1.0 - 4.0 g/kg	(0.1 - 0.4 %)
Glues, adhesives	1.0 - 4.0 g/kg	(0.1 - 0.4 %)
Sealants	1.0 - 4.0 g/kg	(0.1 - 0.4 %)
Household products	1.0 - 4.0 g/kg	(0.1 - 0.4 %)
Other uses	Kindly contact us.	

### Indications for use

Solubility	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

Due to the combination of bactericidal and fungicidal active agents, parmetol<sup>®</sup> MBS acts against a broad spectrum of bacteria, moulds and yeasts. Good production hygiene, as well as the use of raw materials with low microorganism levels as a result of correct raw material control, are of course vital prerequisites for the production of microbiologically faultless finished products.

# parmetol<sup>®</sup> MBS

Compatibility*		
	compatible	to be avoided
concentrate	high-alloyed stainless steel (e. g. 1.4571), steel, ethylene-propylene-terpolymer (EPDM), nitrile rubber, fluorinated rubber, natural rubber, polyethylene, polyvinylchloride, polystyrene	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	
R-phrases(s)	R36, R43
S-phrases(s)	S24, S26, S35, S37
Labelling	Xi (Irritant)
For further hazard instructions and safety advice please refer to the actual material safety data sheet.	

**Environmental information**  
 parmetol<sup>®</sup> MBS contains only biodegradable components. Dilutions of parmetol<sup>®</sup> MBS do not normally interfere with the operation of waste water treatment plants. The canisters and drums used by schülke 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. schülke 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)
ECL (Korea)
DSL / NDSL (Canada)
ENCS (Japan)
PICCS (Philippines)
AICS (Australia)
IECSC (China)
BfR XIV, XXXVI
FDA 175.105 / 176.300 / 176.170

Transport & Storage	
Dangerous goods	No
UN-Number	
Packaging group	
Package sizes	25 kg, 200 kg, 1000 kg
Shelf life	12 Months
Storage	Protect from frost, heat and direct sunlight. Store at room temperature in the original container.

Ecolabel			
	basic criteria	product type	max. use concentration
Blue Angel (Germany)	RAL-UZ-102	low-emission wall paints	0.40 %
European Flower	2002/739/EC	indoor paints and varnishes	1.0 %

## schülke subsidiaries:



**Belgium**  
 S.A. Schülke & Mayr  
 Belgium N.V.  
 1830 Machelen  
 Tel. +32-02-479 73 35  
 Fax +32-02-479 99 66

**China**  
 Schülke & Mayr GmbH  
 Shanghai Representative Office  
 Shanghai 200041  
 Tel. +86-21-62 17 29 95  
 Fax +86-21-62 17 29 97

**France**  
 S & M France  
 75341 Paris Cedex 07  
 Tel. +33-1-44 11 00 81  
 Fax +33-1-44 11 02 41

**Italy**  
 Schülke & Mayr Italia S.r.l.  
 20148 Milano  
 Tel. +39-02-40 21 820  
 Fax +39-02-40 21 829

**The Netherlands**  
 Schülke & Mayr Benelux B.V.  
 2003 LM-Haarlem  
 Tel. +31-23-535 26 34  
 Fax +31-23-536 79 70

**Switzerland**  
 Schülke & Mayr AG  
 8003 Zürich  
 Tel. +44-466 55 44  
 Fax +44-466 55 33

**The United Kingdom**  
 Schülke & Mayr UK Ltd.  
 Sheffield S9 1 AT  
 Tel. +44-1142-54 35 00  
 Fax +44-1142-54 35 01

### Other Distributors:

Argentina · Australia · Austria · Belarus · Benin · Brazil · Bulgaria · Canada · Croatia · Czech Republic · Denmark · Egypt · Estonia · Finland · Ghana · Greece · Hong Kong · Hungary · India · Indonesia · Iran · Israel · Japan · Jordan · Korea · Kuwait · Latvia · Lebanon · Lithuania · Macedonia · Malaysia · New Zealand · Nigeria · Norway · Oman · Philippines · Poland · Portugal · Russia · Saudi Arabia · Singapore · Slovakia · Slovenia · South-Africa · Spain · Sweden · Syria · Taiwan · Thailand · Turkey · Ukraine · United Arab Emirates · USA · Vietnam · Yemen

Our recommendations regarding our products are based on in-depth scientific testing in our Research Department; they are given in good faith, but no liability can be derived from them. It is the responsibility of the final product manufacturer to assure that claims made for the final product are in conformance with all applicable local laws. In other respect our Conditions of Sale and Supply apply.

**Schülke & Mayr GmbH**  
 22840 Norderstedt  
 Germany  
 Tel. +49 40 52100-0  
 Fax +49 40 52100-244  
[www.schuelke.com](http://www.schuelke.com)  
 sai@schuelke.com