

# parmetol<sup>®</sup> A 26 N

## Preservative for technical products

- Stabilised aqueous preparation based on chloromethyl-/ methylisothiazolone (CMI/ MI) and reaction product of ethylene glycol, urea and Paraform
- Suitable for preservation of a broad range of water based products
- Broad, balanced spectrum of effect against bacteria, yeasts and moulds

Active substance		
EINECS-Name:	CAS-No.	EC-No.
5-Chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	247-500-7
2-Methyl-2H-isothiazol-3-one	2682-20-4	220-239-6
(Mixture of 5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one)	55965-84-9	

Physico-chemical properties	
Colour	nearly colourless - yellow
Form	Liquid
Odour	characteristic
Density (20 °C)	1.037 - 1.045 g/ml
Refractive index (20 °C)	1.347 - 1.356
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
Foaming characteristics (DIN 53902)	Non foaming (0.1 % in water)
VOC-Content to Directive 2004/42/EC	9 %

Fields of application	
The optimum use level should be evaluated by means of a repeated challenge test (e.g. at schulke Technical and Microbiological department). Limits for labelling can be seen from the separate schulke labelling sheet.	
<b>Use biocides safely. Always read the label and product information before use.</b>	

	Recommended dosage	
Textured coatings/ plasters	1.0 - 2.0 g/kg	(0.10 - 0.20 %)
Polymer dispersions	0.5 - 2.0 g/kg	(0.05 - 0.20 %)
Glues, adhesives	1.5 - 3.0 g/kg	(0.15 - 0.30 %)
Sealants	1.0 - 2.0 g/kg	(0.10 - 0.20 %)
Household products	0.5 - 2.0 g/kg	(0.05 - 0.20 %)

Indications for use	
Solubility(ies)	Fully soluble in water and in most polar organic solvents.
Compatibility with sulphite ions	parmetol <sup>®</sup> A 26 N is inactivated by sulphite ions. Excessive sulphite > 10 ppm must be avoided.
Recommended use pH range	3 - 9.5
Maximum use temperature	max. 60 °C (depending on pH; recommended: max. 40 °C)
Additional advice	If possible, to be incorporated at an early stage during production. pH, temperature and redox conditions are to be taken into consideration. Avoid alkaline pre-solutions. 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>	0.062	<i>Staphylococcus aureus</i>	0.125	<i>Candida albicans</i>	0.031
<i>Pseudomonas aeruginosa</i>	0.062				
		Sulphate-reducing bacteria	MIC	Moulds	MIC
		<i>Desulfovibrio desulfuricans</i>	0.050	<i>Aspergillus niger</i>	0.062
				<i>Penicillium pinophilum</i>	0.015

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Compatibility*		
	<b>compatible</b>	<b>to be avoided</b>
concentrate	plastics, sealants, metallic materials	unprotected steel
aqueous dilution (0.2 %)	No significant difference to water	Water incompatible materials

\*Compatibility has to be proved in each case

Labelling	
Hazard statements	H315, H317, H319, H411
Precautionary statements	P273, P280, P302 + P352, P305 + P351 + P338, P313
Labelling	Warning - GHS07 (Exclamation mark), GHS09 (Environment)
For further hazard instructions and safety advice please refer to the actual material safety data sheet.	

**Environmental information**  
 parmetol<sup>®</sup> A 26 N contains only biodegradable components. Dilutions of parmetol<sup>®</sup> A 26 N 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)

Transport & Storage	
Dangerous goods	Yes
UN number	3082
Packaging group	III
Package sizes	25 kg, 200 kg, 1000 kg
Shelf life	36 months
Storage	Protect from frost, heat and direct sunlight. Store at room temperature in the original container.

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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. At schülke, we continually strive to make our products globally available. However, due to various factors, the availability of our products in your area may not always be guaranteed. Please contact us for more information on our product range in your country.



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