



**Product properties – Technical sheet**

<p><b>MICROL CL EXTRA</b></p>	<p><b>Item no.:</b> <b>00 15 39</b></p>
<p><b>Areas of application</b></p>	<p><b>Microl CL Extra</b> is a strong alkaline product free from detergents with active chlorine for the use in membranes and plants which are compatible with chlorine.</p> <p><b>Microl CL Extra</b> is especially developed for the removal of proteins and other organic residues on membranes.</p> <p><b>Microl CL Extra</b> prevents the cleaning solution from precipitation of water hardness.</p> <p><b>Microl CL Extra</b> effects hygienic cleaned membranes.</p>
<p><b>Method of application</b></p>	<p><b>Re-circulating cleaning system:</b></p> <p>Concentration: 1.0 – 1.5 % Temperature: cold – 50°C Time: 20 – 40 minutes</p> <p>After having used the product rinse thoroughly with drinking water to remove any possible residues!</p> <p>In case of insufficient rinsing in the 'dead areas' of the plant equipment and pipes or in gaps e.g. under seals it could come to the enrichment of chloride ions which can lead at pH values &lt; 7 to pit, hole and intergranular corrosion at stainless steel!</p>
<p><b>Material compatibility</b></p>	<p>PVDF, PP, PE, PVC, Stainless Steel, Glass, Cast Iron, Tiles and membranes suitable for alkaline cleaning solutions.</p> <p><b>Microl CL Extra</b> must not be used on aluminium and membranes made from cellulose and cellulose acetate.</p> <p>In addition, further material incompatibilities cannot be excluded. Therefore, test the product before use and ask the producer of the membrane if the product is compatible with the product.</p>

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<b>Analysis of concentration</b>	see titration method		
<b>Physical and chemical properties</b>			
<b>Aspect/colour</b>	Clear	Slightly Yellowish – Yellowish	
<b>Form</b>	Liquid		
<b>Odour</b>	Chlorine-like		
<b>Foaming behaviour</b> <small>(see under conditions of application)</small>	Not foaming		
<b>Phosphates</b>	n/a		
<b>Density (20°C) g/cm<sup>3</sup></b>	1.160 – 1.190		
<b>Concentration</b>	<b>1 % in H<sub>2</sub>O dest.</b>	<b>1 % in H<sub>2</sub>O dest.</b>	<b>1 % in H<sub>2</sub>O dest.</b>
<b>pH value (1 %, 20°C)</b>	12.0 – 12.6	12.0 – 12.6	12.0 – 12.6
<b>Conductance (1 %, 20°C) mS/cm</b>	6.0 – 7.0	6.0 – 7.0	6.0 – 7.0
<b>Phenolphthalein alkalinity (ml)</b>	2,35 ± 0.25 (1 % at 10 ml sample)		
<b>m-Value (ml)</b>	n / a		
<b>Storage stability</b>	+ 5°C to + 40°C		
<b>Remarks regarding biocides</b>	n/a		
<b>Hazardous products</b>	Sodium Hydroxide / Sodium hypochlorite solution		
<b>Risk symbols</b>			
	<b>DANGER</b>		
<b>Special remarks</b>	<p>Always close the container with the original closure, and store the items in a cool area without solar radiation. Product which was taken out of the container must never be poured back into the container.</p> <p><b>Read in any case our safety data sheet before using the product!</b></p>		
<b>Disposal</b>	Disposal acc. to official regulations, in case of doubt contact the manufacturer.		

Please refer to our safety data sheets and our operating instructions with regard to precautionary measures, first aid measures and storage. The information given in the Sheet corresponds to the present state of our technical knowledge and experience. They do not constitute any guarantee; they are to be considered as basic information only. In particular they do not guarantee particular properties or the suitability for a concrete purpose. Because of the multitude of possible influences during the application of our products, the user has to make in any case the relevant tests and take the corresponding precautions. Any existing intellectual property rights are to be observed.