


**Product properties – Technical sheet**

<p><b>DIOX SZ 90</b></p>	<p><b>Item no.:</b> <b>41 35 11</b></p>
<p><b>Areas of application</b></p>	<p><b>DIOX SZ 90 IS A POWERFUL DISINFECTANT AND OXIDIZING AGENT</b></p> <p><b>Diox SZ 90</b> is an active hydrochloric acid solution used in conjunction with additional co-reactant chemicals (<b>Diox CL 75</b>) to generate chlorine dioxide.</p> <p>Chlorine dioxide is used in water treatment as an oxidant and a disinfectant for use in potable water and wastewater disinfection systems, food plant processing water, CIP systems, industrial cooling tower water applications, oil field injection water and white water paper mill systems.</p> <p><b>Diox SZ 90</b> is generally used to achieve a concentration of 0.5 – 2.0 ClO<sub>2</sub>.</p>
<p><b>Method of application</b></p>	<p><b>Dosing via chlorine dioxide system into the rinsing zones of the bottle washing system as well as for disinfection in all recirculating water systems.</b></p> <p>Concentration: 0.5 – 2.0 ClO<sub>2</sub> Temperature: 5 – 35°C</p>
<p><b>Material compatibility</b></p>	<p>PVDF, PP, PE, PVC, Stainless Steel, Glass</p> <p><b>Diox CL 75</b> must not be used on aluminium, steel, cast iron and tin.</p> <p>In addition, further material incompatibilities cannot be excluded. Therefore, test the product before its definite use.</p>

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<b>Analysis of concentration</b>	see titration method		
<b>Physical and chemical properties</b>			
<b>Aspect/colour</b>	Colourless		
<b>Form</b>	Liquid		
<b>Odour</b>	Slightly pungent		
<b>Foaming behaviour</b> (see under conditions of application)	Not foaming		
<b>Phosphates</b>	not applicable		
<b>Density (20°C) g/cm<sup>3</sup></b>	1.035 – 1.055		
<b>Concentration</b>	<b>1 % in H<sub>2</sub>O dest.</b>	<b>3 % in H<sub>2</sub>O dest.</b>	<b>5 % in H<sub>2</sub>O dest.</b>
<b>pH value (1 %, 20°C)</b>	1.5 – 2.1	not applicable	not applicable
<b>Conductance (1 %, 20°C) mS/cm</b>	9.5 – 11.5	29.0 – 32.0	48.0 – 53.0
<b>Phenolphthalein alkalinity (ml)</b>	Not applicable		
<b>m-Value (ml)</b>	Not applicable		
<b>Storage stability</b>	- 5°C to + 30°C		
<b>Remarks regarding biocides</b>	<p><b>Use biocides safely. Always read the label and product information before use!</b></p> <p><b>The product contains: 90 g/kg Hydrochloric acid</b></p>		
<b>Hazardous products</b>	Hydrochloric acid		
<b>Risk symbols</b>			
	<b>WARNING</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.