


## Product properties – Technical sheet

<b>TENSOL FL ERP N</b>	<b>Item no.:</b>  <b>40 33 13</b>
<b>Areas of application</b>	<p><b>Tensol FL ERP N</b> is a top – quality, high concentrated additive for alkaline bath in bottle washing machines and alkaline washing processes.</p> <p><b>Tensol FL ERP N</b> activates and increases the cleansing efficiency of the alkaline cleaning solution.</p> <p><b>Tensol FL ERP N</b> is to be used if the cleaning effect of the washing liquor is not sufficient of remove the labels within the specified cycle time, i.e. for so-called problem labels.</p> <p><b>Tensol FL ERP N</b> is based on special agents to absorb the water hardness and to stabilize the alkalic bath. Special detergents are responsible for better wetting of the bottles and reduce the foam formation in the lye.</p> <p><b>Tensol FL ERP N</b> does not include any phosphates and is suitable for phosphate free bottle cleaning.</p> <p><b>Tensol FL ERP N</b> is suitable for PET-bottles.</p>
<b>Method of application</b>	<p><b>Add the product with an automatic dosing system (time relay, volumetric control) into the alkaline bathes of the bottle washing machine:</b></p> <p><b>1. First preparation for bathes:</b>        Concentration: 0.1 – 0.5 % (depending on the hardness of water)        Temperature: 60 – 90°C        Time: 15 – 30 minutes</p> <p><b>Subsequent addition:</b>        Subsequent dosing follows in the relation to the NaOH addition. Use the relation according to the first preparation.</p> <p>After having used the product rinse thoroughly with drinking water to remove any possible residues!</p>
<b>Material compatibility</b>	<p>PVDF, PP, PE, PVC, Stainless Steel, Glass, Steel and Cast Iron.</p> <p><b>Tensol FL ERP N</b> must not be used on Aluminium. In addition, further material incompatibilities cannot be excluded. Therefore, test the product on an unimportant spot 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>	Brown		
<b>Form</b>	Liquid		
<b>Odour</b>	Characteristic		
<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>	1.175 – 1.195		
<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>	11.0 – 12.0	not applicable	not applicable
<b>Conductance (1 %, 20°C) mS/cm</b>	1.8 – 2.5	4.5 – 5.5	7.0 – 8.0
<b>Phenolphthalein alkalinity (ml)</b>	2.2 ± 0,3 (1 % at 30 ml sample)		
<b>m-Value (ml)</b>	not applicable		
<b>Storage stability</b>	+ 5°C to + 30°C		
<b>Remarks regarding biocides</b>	<b>not applicable</b>		
<b>Hazardous products</b>	Trisodium 2-[bis(carboxylatomethyl)amino] propanoate		
<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.