



**Product properties – Technical sheet**

<p><b>CRATE WASHER MSA NS</b></p>	<p><b>Item no.:</b> <b>00 15 57</b></p>
<p><b>Areas of application</b></p>	<p><b>Crate Washer MSA NS</b> is an acid cleaning agent to be used in case and box washing machines.</p> <p><b>Crate Washer MSA NS</b> is particularly suitable for cleaning of aluminium, stainless steel and plastic cases and boxes which got dirty or shabby and grey because of environmental pollution and weathering.</p> <p><b>Crate Washer MSA NS</b> is a none-foaming agent so that it can be used in high-turbulence machines, too.</p> <p><b>Crate Washer MSA NS</b> combines following advantages:</p> <ul style="list-style-type: none"> <li>▪ Particular mild to all relevant surfaces</li> <li>▪ High cleaning power</li> <li>▪ Odourless</li> <li>▪ Colourless</li> <li>▪ Free of relevant waste water pollutant (sulphates, phosphates and nitrates)</li> <li>▪ In particular biodegradable</li> </ul>
<p><b>Method of application</b></p>	<p><b>Spray cleaning:</b> Add the product into the cleaning bath of the crate washing machine.</p> <p><b>Suitable for automatic dosing (time relay, volumetric control or control by conductance):</b></p> <p>Concentration: 0.5 – 3.0 %          Temperature: 30 – 70°C          Time: 1 – 3 minutes</p> <p>After having used the product rinse thoroughly with drinking water to remove any possible residues!</p>
<p><b>Material compatibility</b></p>	<p>PVDF, PP, PE, PVC, stainless steel, glass, aluminium.</p> <p><b>Crate Washer MSA NS</b> must not be used on steel and cast iron.</p> <p>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>	according to the titration instructions		
<b>Physical and chemical properties</b>			
<b>Aspect/colour</b>	Clear	Colourless	
<b>Form</b>	Liquid		
<b>Odour</b>	Characteristic		
<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>	1.085 – 1.105		
<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>	1.7– 2.3	n/a	n/a
<b>Conductance (1 %, 20°C) mS/cm</b>	7.25 – 9.25	21.5 – 25.5	36.0 – 42.0
<b>Phenolphthalein alkalinity (ml)</b>	6.75 ± 0.5 (1 % at 30 ml sample)		
<b>m-Value (ml)</b>	n/a		
<b>Storage stability</b>	- 5°C to + 30°C		
<b>Remarks regarding biocides</b>	n/a		
<b>Hazardous products</b>	Methanesulphonic acid / 2-(2-butoxyethoxy)ethanol		
<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.