

<b>ECOSTAR 1 GLUE</b>	<b>Item no.:</b>  <b>45 20 00</b>
<b>Areas of application</b>	<p><b>Ecostar 1</b> is casein glue, used for the labelling of bottles and glasses.</p> <p><b>Ecostar 1</b> is particularly suitable for high speed labelling machines (rotation machines with roller made from steel or rubber).</p> <p><b>Ecostar 1</b> is extremely quick curing and can be applied on cold and wet bottles.</p> <p><b>Ecostar 1</b> - efficiency:</p> <ul style="list-style-type: none"> <li>▪ usable for 60.000 bottles per hour</li> <li>▪ cold bottles till 40°C</li> <li>▪ wet and dry bottles</li> <li>▪ weight of paper till 80 g/m<sup>2</sup> and more</li> <li>▪ processing from 25 – 34°C, best temperature 28°C</li> </ul> <p><b>Shelf life:</b> In the closed original pack 6 months.</p>
<b>Method of application</b>	<p><b>Suitable for labelling systems with or without pump.</b></p> <p>Optimum processing temperature: 25 – 34°C.</p> <p>The label glues are supplied ready to be used on the machines.</p> <p>After having been stored for a longer time the glue may have thickened then add some water to obtain the required consistency.</p> <p>Before changing the glue type clean thoroughly the whole gluing equipment because the different glue types (dextrin-casein-starch) are not compatible.</p>
<b>Material compatibility</b>	<p>None incompatibility known.</p> <p>In some cases material incompatibilities cannot be excluded. Therefore, test the product on an unimportant spot before its definite use.</p>

## Product properties – Technical sheet

Analysis of concentration	n/a		
Physical and chemical properties			
Aspect/colour	Cloudy	Bräunlich - Hellbraun	
Form	Pasty		
Odour	Characteristic		
Foaming behaviour (see under conditions of application)	Not foaming		
Phosphates	n/a		
Viscosity (25°C)	100,000 +/- 40,000 mPa s (Brookfield: SP7,10 rpm) 20°C		
Concentration	1 % in H <sub>2</sub> O dest.	3 % in H <sub>2</sub> O dest.	5 % in H <sub>2</sub> O dest.
pH value (1 %, 20°C)	7.0 – 9.0	n/a	n/a
Conductance (1 %, 20°C) mS/cm	n/a	n/a	n/a
Concentration of solid matter	44.5 ± 1.7 % (Abbe-Refraktometers, 25°C)		
m-Value (ml)	n/a		
Storage stability	+ 5°C bis + 30°C — max. 6 months		
Remarks regarding biocides	n/a		
Product contains	Mixture: 5- Chlor-2-methyl-2H-isothiazol-3-on (CIT CAS 26172-55-4) and 2-Methyl-2H-isothiazol-3-on (MIT CAS 2682-20-4). May produce an allergic reaction		
Risk symbols	THE PRODUCT IS NOT CLASSIFIED ACCORDING TO THE CLP REGULATION AND REQUIRES NO LABELING!		
Special remarks	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.  Read in any case our safety data sheet before using the product!		
Disposal	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.