

Title (en)  
DISHWASHER RINSE AID

Title (de)  
MASCHINELLES GESCHIRRSPÜLMITTEL

Title (fr)  
PRODUITS DE LAVAGE POUR LAVE-VAISSELLE

Publication  
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Application  
**EP 05700894 A 20050112**

Priority  
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Abstract (en)  
[origin: WO2005097957A1] The invention relates to dishwasher rinse aid containing between 0.5 and 12 wt. % of a surfactant system comprising c) at least one non-ionic surfactant F of general formula:  $R_{<1>-CH(OH)CH_2O-(AO)_w(A'O)_x(A''O)_y-(A'''O)_z,-R_{<2>,< >}$  wherein  $R_{<1>}$  represents a linear or branched, saturated or monounsaturated or polyunsaturated C6-24 alkyl or alkenyl radical,  $R_{<2>}$  represents a linear or branched hydrocarbon radical containing between 2 and 26 carbon atoms, A, A', A'' and A''' independently represent a radical from the group -CH<sub>2</sub>CH<sub>2</sub>, -CH<sub>2</sub>CH<sub>2</sub>-CH<sub>2</sub>, -CH<sub>2</sub>-CH(CH<sub>3</sub>), -CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>, -CH<sub>2</sub>-CH(CH<sub>3</sub>)-CH<sub>2</sub>-, -CH<sub>2</sub>-CH(CH<sub>2</sub>-CH<sub>3</sub>), w, x, y and z represent values between 0.5 and 25, and x, y and/or z can also be 0; and d) at least one non-ionic surfactant G of general formula:  $R_{<1>-O-(AO)_w(A'O)_x(A''O)_y-(A'''O)_z,-R_{<2>,< >}$  wherein  $R_{<1>}$  represents a linear or branched, saturated or monounsaturated or polyunsaturated C6-24 alkyl or alkenyl radical,  $R_{<2>}$  represents H or a linear or branch hydrocarbon radical containing between 2 and 26 carbon atoms, A, A', A'' and A''' independently represent a radical from the group -CH<sub>2</sub>CH<sub>2</sub>, -CH<sub>2</sub>CH<sub>2</sub>-CH<sub>2</sub>, -CH<sub>2</sub>-CH(CH<sub>3</sub>), -CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>, -CH<sub>2</sub>-CH(CH<sub>3</sub>)-CH<sub>2</sub>-, -CH<sub>2</sub>-CH(CH<sub>2</sub>-CH<sub>3</sub>), w, x, y and z represent values between 0.5 and 25, and y and/or z can also represent 0; said surfactant system containing the non-ionic surfactants F and G in a weight ratio of F:G of between 1:4 and 100:1. The inventive rinse aid is characterised by an improved rinsing performance compared to conventional rinse aid.

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Citation (search report)  
See references of WO 2005097957A1

Cited by  
US8450261B2; US8389458B2; EP2963100A1; WO2011032868A1

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