

Starting Formulation, LL-8502-V1

October 18, 2019
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End-Use Homecare

Liquid laundry detergent with stabilized encapsulated fragrance

Liquid laundry detergent with stabilized encapsulated fragrance for use at 55 ml dosage. Enzymes can be added as required.

Anti-settling achieved with RHEOBYK-7420 ES

Formulation

Pos.	Component	Supplier	Function	Weight [g]
1	Demineralized water		Solvent	28.9
2	Zetesol NL 2 U	Zschimmer & Schwarz	Anionic Surfactant	40.0
3	Wilfarin DK 1218	Wilmar	Soap	2.0
4	HOESCH AE 50	Julius Hoesch	Anionic Surfactant	10.0
5	HOESCH T9	Julius Hoesch	Nonionic Surfactant	10.0
6	Dequest 2066	Italmatch	Sequestrant	2.0
7	Tri Sodium Citrate	Multiple	Sequestrant	2.0
8	Ethanol	Multiple	Solvent	1.5
9	Propylene glycol	Multiple	Solvent, Enzyme stabilizer	3.0
10	Folco Microdeur T Detergaflor	Follmann	Encapsulated fragrance	0.3
11	RHEOBYK-7420 ES	BYK	Anti-Settling	0.3
12	Enzymes	Multiple	Washing	As required
	KOH	Multiple	pH adjustment	As required
				100.0

Instructions

- Add water to a suitable container at room temperature
- Add all components #1-#11 sequentially under stirring at 500-1000 rpm. Wait until added component is dissolved before adding next component
- Stir mixture for 30 minutes at 1000 rpm after addition of RHEOBYK-7420 ES
- Check pH-value of formulation and adjust to approx. 8.5 with KOH if necessary

Characteristic Data/ Specification

Data	Unit	Value
Anionic Surfactant	%	10.8
Nonionic Surfactant	%	9.0
Encapsulated fragrance	%	0.1
Rheology modifier	%	0.1
Total solid content	%	29.5

Further information / Application

The liquid laundry detergent cannot be used as is. Enzymes need to be added to achieve a good cleaning effect. RHEOBYK-7420 ES does not interact with enzymes and can be used in various liquid laundry formulations to stabilize encapsulated fragrances, opacifiers, decorative pearls or any other kind of solid.

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This issue replaces all previous versions.