

Starting Formulation, CL-9221

Oct. 6th 2020

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End-Use Homecare Sprayable Oven Cleaner

utilized LAPONITE-RD

Formulation

Pos.	Component	Supplier	Function	Weight [g]
1	Demineralized water		Solvent	74.35
2	BYK-044 (100%)	BYK	Defoamer	0.05
3	LAPONITE-RD	BYK	Rheology additive	2.00
4	Dowanol DPM Dipropylene glycol - methyl ether	Dow	Solvent	6.00
5	Dowanol TPM Tripropylene glycol - methyl ether	Dow	Solvent	6.00
6	Baypure CX 100 (34%)	Lanxess	Complexing agent	6.00
7	Sodium bicarbonate	Tata Chemicals	Alkali	3.25
8	Sodium hydroxide 33% in demineralized water	Various	Alkali	1.00
9	Phosfetal 201	Zschimmer&Schwarz	Anionic surfactant	0.25
10	Lumorol 4357	Zschimmer&Schwarz	Non-ionic Surfactant	1.00
11	Iragon brilliant blue HFC 1% in demineralized water	BASF / BTC Europe	dye	0.10
				100.0

Instructions

Mix water with defoamer, add carefully Laponite-RD and stir for 20 minutes at 2500 rpm with 30mm tooth blade (4 m/s) until the dispersion is dissolved.

Weigh solvents and add complexing agent and stir 5 minutes at 2200 rpm with 30mm tooth blade (3.5 m/s).

Add slowly sodium bicarbonate into the batch (with stirring) and stir 10 minutes at 2900 rpm with 30mm tooth blade (4.5 m/s).

Then add all ingredients separately in order listed and stir for 5 minutes at 1600 rpm with 30mm tooth blade (2.5 m/s).

Characteristic Data/ Specification

Data	Unit	Value
pH value		9 - 11
Rheological modifier solids	%	2.0
Solids	%	9.0

Further information / Application

The formulation is designed to be used as is.

Spray the oven cleaner undiluted on oven surface, then rinse with water after 5 minutes.