

Starting Formulation, CL – 9054

March 2nd, 2020
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End-Use Homecare

Alcohol based surface cleaner with slight viscosity

Pumpable surface cleaner, based on RHEOBYK-HV 80, works with either ethanol or isopropanol.

Formulation

Pos.	Component	Supplier	Function	Weight [g]
1	Demineralized water		Solvent	26.5
2	RHEOBYK-HV 80 (30%)	BYK	Rheology additive	3.0
3	TEA (85%)	Various	Neutralization additive	0.5
4	Ethanol (99%)*	Various	Anti-microbial	65.0
5	Glycerine‡	Various	Co-solvent	1.0
6	Hydrogen Peroxide (3%)	Various	Anti-septic	4.0
				100.0

Instructions

- Combine water and RHEOBYK-HV 80 with a mixer at 1500-2000 rpm for 15 minutes
- Add TEA to Quality Standard (QS), approximately 1:4 ratio of HV-80, stirring at 1000 rpm; solution becomes transparent upon neutralization. Continue stirring for 10 minutes
- Add ethanol under stirring at 1000 rpm; continue stirring for 10 minutes
- Add glycerine under stirring at 1000 rpm; continue stirring for 10 minutes
- Add the hydrogen peroxide under stirring at 1000 rpm; continue stirring for 10 minutes

* Can be substituted 1:1 with Isopropanol (99%)

‡ Can be substituted 1:1 with Propylene Glycol

Characteristic Data/ Specification

Data	Unit	Value
Rheology additive content	%	0.9
Total solid content	%	0.9

Further information / Application

The formulation is designed to be used as is.

The formulation will work through a pump or squeeze bottle.