

FORMULATION

Care Laundry Detergent

Overview

- Extends the life of clothing by preventing the formation of pills on cotton and polycotton
- Keeps whites white and colors bright by preventing dirt particles in the wash water from depositing on clean clothes
- Uses Soltellus 2101S to boost enzymes and as a sequestrant and dispersant
- Made with biodegradable ingredients

Composition

	Trade Name	INCI	% w/w	Function	
A		Water	q.s. to 100		
		Sodium citrate	3	Biodegradable chelant	
		Soltellus 2101S (Lygos)	Sodium polyaspartate	1	Biodegradable dispersant, sequestrant, enzyme booster
		Oleic acid	0.75	Biodegradable anti-foamer	
		Eco Brij L6 (Croda)	Laureth-6 (100% active)	5	Biodegradable nonionic surfactant
		Stepanol WA-Extra HP (Stepan)	Sodium Lauryl Sulfate (30% active)	13.5	Biodegradable anionic surfactant
B		NaOH or Citric acid		pH adjuster	
		NaCl		Viscosity modifier	
C	Add the following ingredients when the formula has cooled down (if using a heated process)				
	Liquinase Evity 3.5 L (Novonesis)	Protease	0.8	Stain removal	
	Amplify Prime 100 L (Novonesis)	Amylase	0.13	Stain removal	
	Mannaway 200 L (Novonesis)	Mannanase	0.02	Stain removal	
	Celluclean 500 L (Novonesis)	Cellulase	0.06	Stain removal and care	
	Acticide MBS (Thor)	Methylisothiazolinone/ Benzisothiazolinone	0.5	Biodegradable preservative	

Procedure

Add ingredients in the order listed, mixing until fully dissolved after each addition. Dissolve each ingredient completely before adding the next one. Adjust pH to 8 with NaOH. Adjust viscosity using NaCl.

Technical Specifications

Parameter	Value
Appearance (25°C)	Clear Liquid
pH (as is)	7.8-8.2
Viscosity (cPs)	210-280
Stability (1 Month, 40°C)	Stable
Dose	45 ml

Performance (Stain removal)

Suggested method: ASTM D4265-14, using CFT SM-04 as the stain set

