



Technical Data Sheet

Rheo2Green2

Surfactant concentrate with preservative system

Field of Application: Natural and organic cosmetics

Properties:

Rheo2Green2 is a surfactant concentrate, which after dilution with water to a use level of 25 – 50 %, can be thickened by reduction of pH in a cold process. This dramatic increase of viscosity leads to favourite flow and foam behaviour of cleansing formulations. Resulting rheological properties are based on pure micellar thickening, which is responsible for the desired viscoelasticity missed by thickening with polymers, such as gums. Rheo2Green2 includes a green preservative system with suitable concentration when diluted to use level of 25 – 50 %.

- Rich fine-pored foam
- Outstanding micellar self-thickening at pH < 5.5
- Cold processable
- Buffer capacity at pH of skin
- Mildness to skin and eyes
- Good cleansing ability
- Applying for certified cosmetic formulation
- High biological degradability
- Environmentally friendly
- Free from fragrances and solvents
- Sulphate free
- Contains a mixture of sodium benzoate and potassium sorbate as preservative

Application: As cleansing surfactant blend for high foaming, transparent formulations with effective micellar thickening

Composition: INCI: Aqua, Lauryl Glucoside, Disodium Cocoyl Glutamate, Sodium Benzoate, Potassium Sorbate

Product Characteristics:	Supplied form	viscous liquid*
	Colour	colourless –yellowish*
	Transparency	turbid*
	pH value (10%)	8.5 – 9.5*
	NaCl-content	< 4.0 %
	Dry substance at 105°C	41 – 44 %*
	Microbiological status: total colonies	<100 cfu/g
	*specified values	

**Guide Formulation:****Green Thickened Shampoo**

Rheo2Green2 is a surfactant system mild to skin and eyes with rich fine-pored foam. Viscosity is based on micellar thickening.

	Ingredients	Weight %
A	Aqua	50.8 (60.8)
	Rheo2Green2 (Lauryl Glucoside, Disodium Cocoyl Glutamate, Sodium Benzoate, Potassium Sorbate)	45.0 (35.0)
B	Panthenol (75 %)	1.5
	Chamomilla Recutita Extract (2 %)	1.0
	Hydrolyzed Wheat Protein (40 %)	0.5
	Glycerin Monooleate	0.2
	Sorbitol	1.0
C	Lactic Acid	qs to pH = 5.1

Mix A and add B in listed order. Mix until formulation appears homogeneous. Adjust pH with C.

Appearance Light yellowish, clear

pH-value 5.1

Haake, Shear rate = $5 \cdot s^{-1}$, T = 20 °C:

Rheo2Green2	45.0 %	6800 mPa·s
	35.0 %	3800 mPa·s

Regulatory Information:

Please request the corresponding regulatory data sheet

Shelf Life:

12 months after date of despatch

Storage Conditions:

- Store at room temperature
- Store in closed container
- Stir thoroughly before use
- During storage at low temperatures more intensive turbidities or solidification may occur which is completely reversible by means of stirring at room temperature.

Packaging:

Drum of 220 l (200 kg net)
IBC of 1000 l (1000 kg net)
Sample: 1 kg

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