



# Flexisurf™ 810B

*Specialty Surfactant and Detergent*

## Overview

- Mild, specialty surfactant and detergent
- Foam booster, emulsifying agent, thickener, and softener
- Compatible with anionic, cationic, nonionic, and amphoteric ingredients.
- Preservative -free

## Applications

- Surfactant for personal care uses including foam booster in shampoo, bath products such as handsoaps, emulsifying agent & thickener for cosmetics, skin & hair softener, skin care (facial care, facial cleansing, body care, and baby care)
- Household cleaners
- Laundry detergents
- Other HI&I uses
- Animal husbandry uses

## Technical Information

Flexisurf 810B is a specialty surfactant which is a caprylic-/capra- (C8/C10) amidopropyl betaine. It contains a long hydrocarbon chain at one end and a polar group at the other end. This product is a zwitterion, with both a quaternary ammonium cation and a carboxylate, which allows it to perform as a surfactant and a detergent.

## Formulary

Refer to formulation options on page 2.

## Typical Properties

PROPERTY	VALUE
Appearance	Clear liquid, colorless to light yellow
Ionic character	Zwitterion
Water solubility	Soluble
pH	4.5 to 5.5
Density	1.05 to 1.09 g/ml
% Solids	44.0 to 46.0
Boiling Point	est. 100 °C
Flash point	> 100 °C
Storage	Freeze/thaw stable
Shelf life	12 months

\*Typical Properties do not represent specifications.

## Packaging and Handling

Flexisurf 810B is available in: totes (2200 lb. net wt.), drums (440 lb. net wt.), and 5 gallon pails (40 lb. net wt.).

Refer to the Safety Data Sheet (SDS) for information on the safe use, handling, and disposal of this product.

DOT Classification: Non-Regulated

Whether you're looking for a replacement product or an ingredient for a specific attribute, give us a call. We can provide assistance based upon your particular formulation requirements and composition; please feel free to contact us.

# Flexisurf 810B

## Specialty Surfactant & Detergent

### Starting Point Formulations\* for Flexisurf 810B

Formulation for Gentle Facial Cleaner	Ingredients	Quantity (%)	Instructions
Step 1	Water	71.4	
	Glycerin	3.6	Mix and heat to 70° C
Step 2	Flexisurf 810B	11.9	Add and mix until uniform
Step 3	Sodium cocoyl isethionate	5.95	Add slowly and mix well
	Decyl glucoside	5.95	Add slowly and mix well
Step 4	Preservative (such as phenoxyethanol)	1.2	Add and mix until uniform
Step 5	pH adjust to pH 5.0 to 5.5	q.s.	Add and mix well
Step 6	Final water addition	q.s.	Add and mix well
		Total = 100%	
Formulation for Moisturizing Shampoo	Ingredients	Quantity (%)	Instructions
Step 1	Water	69.9	
	Aloe vera gel	7	Combine ingredients and heat to 70° C
Step 2	Flexisurf 810B	9.8	Add and mix well
	Sodium lauryl sulfate	7	Add and mix well
Step 3	Glycerin	4.2	Add and mix well, then cool to room temperature
Step 4	Fragrance (optional)	q.s.	Add and mix
	Preservative (such as phenoxyethanol)	1.4	Add and mix until uniform
Step 5	pH adjust to 5-6	q.s.	Add and mix well
Step 6	Final water addition	q.s.	Add and mix well
		Total = 100%	
Formulation for Body Wash	Ingredients	Quantity (%)	Instructions
Step 1	Water	73.3	
	Sodium chloride	0.7	Combine & heat to 70° C
Step 2	Flexisurf 810B	10.7	Add and mix well
Step 3	Lauryl glucoside	9.3	Add and mix well
	Glycerin	4	Add and mix well
Step 4	Preservative (such as phenoxyethanol)	1.3	Add and mix until uniform
Step 5	Add Essential Oil (optional)	0.7	Add and mix well
Step 6	pH adjust to 5-6	q.s.	Add and mix well
Step 7	Final water addition	q.s.	Add and mix well
		Total = 100%	
*Conduct stability & compatibility testing			

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