



## ZERO-WASTE, WATERLESS SHAMPOO BAR

NO PLASTIC! This luxurious but gentle shampoo bar embraces both waterless and zero-waste trends. With two natural alternatives to synthetic emollients: **Meadowfoam Seed Oil XPR** imparts a rich moisture to hair, and **Daikon Seed Extract** increases hair strength and shine. Plant-based, natural surfactants create a nice lather while gently cleaning hair.

Ingredient INCI NAME	Trade Name	%
<b>Phase A</b>		
Coco-glucoside	Plantaren 818 UP <sup>1</sup>	12.00
Cocamidopropyl Betaine	Cocamidopropyl Betaine	10.00
Glycerin	Glycerin	5.00
Sodium Lauroyl Sarcosinate	Perlastan L 30 <sup>2</sup>	5.00
Coco-Glucoside (and) Glyceryl Oleate	Lamesoft PO 65 <sup>1</sup>	3.00
<b>Phase B</b>		
Cetearyl Alcohol	Cetearyl Alcohol	35.00
Behentrimonium Chloride	Behentrimonium Chloride	10.00
Oryza Sativa (Rice) Bran Wax	Rice Bran Wax <sup>3</sup>	8.00
<b>Limnanthes Alba (Meadowfoam) Seed Oil</b>	<b>Meadowfoam Seed Oil XPR*<sup>4</sup></b>	<b>4.00</b>
Butyrospermum Parkii (Shea) Butter	Shea Butter <sup>5</sup>	3.00
Behenyl Alcohol (and) Polyglyceryl-3 Stearate	Kostol Natural E <sup>3</sup>	3.00
<b>Raphanus Sativus (Daikon) Seed Extract</b>	<b>Daikon Seed Extract<sup>4</sup></b>	<b>2.00</b>
<b>Total</b>		<b>100</b>

\*Meadowfoam Seed Oil and Meadowfoam Seed Oil XPR can be used interchangeably in this formulation.

**Suppliers:** <sup>1</sup> BASF/Ross Organics; <sup>2</sup> Schill and Seilacher/Ross Organics; <sup>3</sup> Koster Keunen; <sup>4</sup> **Natural Plant Products**; <sup>5</sup> Charkit Chemical Company

**Procedure:** Prepare phases A and B separately, heating to 75-80°C. Add B to A with moderate propeller stirring. Take off heat, cool to 40-45°C and pour into molds.

**Stability:** One month at 45°C.

**Suggested Usage:** Rub shampoo bar between hands to create lather, or massage directly on wet hair. Lather well, rinse and follow with conditioner.

The information contained herein is provided for informational purposes only. This suggested formulation is only a representative formulation and is not a commercialized product. NPP believes that the formulation and data on which this formulation is based are reliable, but it has not been subjected to extensive testing for performance, efficacy, or safety. Before commercializing, you should thoroughly test the formulation or any variation of it (as well as the raw materials, including any NPP product used) to determine its performance, efficacy, and safety. Further, you will be responsible for ensuring the regulatory compliance of the final product and its ingredients.

No guarantee, representation, or warranty of any kind is made with respect to any product or information contained herein, including, without limitation, the suitability, accuracy, the completeness or relevance of the data set out herein, or any result. NPP disclaims all warranties, express or implied, including, without limitation, warranties of merchantability, fitness for a particular purpose, or non-infringement of any patent or other intellectual property right (including, without limitation, copyright and trademark). User bears full responsibility for making its own determination as to the suitability for a particular purpose and for identifying and performing all tests and analyses necessary and sufficient for user's purpose. The final choice of use of a product or information as well as the investigation of any possible violation of intellectual property rights remains the sole responsibility of user.

© Natural Plant Products, LLC All rights reserved.

Phone: (503) 363-6402  
Fax: (503) 587-8717  
Email: sales@meadowfoam.com  
P.O. Box 4306  
Salem, OR 97302 USA  
[www.meadowfoam.com](http://www.meadowfoam.com)

