



## No holds barred - shampoo bar

Shampoo bar cleanses with a creamy, hydrating fresh-scented lather. The concentrated bar is more eco-friendly than the liquid shampoos: reduced weight and reduced packaging.



### DOWSIL™ 9041 Silicone Elastomer

Blend contributes to long lasting silky, smooth feel. Provides thickening in anhydrous and w/o emulsion formulations. Can be used in either hot or cold process.



### SustOleo™ GMS-SE

Palm free self-emulsifier. It is a stabilizer and opacifier that minimizes the need for co-emulsifiers in many formulations.

### SustOleo™ TSB

Palm free sensory modifying solid emollient. It is a non-greasy, semi-solid with a luxurious feel that stabilizes w/o and o/w emulsions.



### Fentacare® BTMS 25EF

Quaternized, sulfated, superior and durable conditioning. Yields premium quality cream rinses with superior wet and dry combing benefits. BTMS 25EF is EDTA-free and blended with fatty alcohol.

### Geropon® T77

Produces a dense and creamy lather in liquid skin cleanser, it has a good viscosity response in mild formulations. It can also be used in dry/solid products such as syndet bars.

### Mackamide® LPA

High purity monoisopropanolamide that is an excellent viscosity index improver and foam stabilizer. It has very low residual free amine and is a suitable replacement for diethanolamides.

### Mackol® CAS 100N

Naturally-derived anionic surfactant for the formulation of "natural type" personal cleansing products. Provides excellent lather, thickening and conditioning properties.

### Rhodacal® LSS-92M/RP

Solid version primary anionic surfactant that combines excellent detergency properties and foaming properties and lower irritancy than sodium alkyl sulfates and sodium alkyl benzene sulfonates.

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Formula: NL0031-79

Supplier Ingredient	WT%	Trade Name	Supplier
<b>PHASE A</b>			
Behentrimonium Methosulfate (and) Cetearyl Alcohol	9.00	Fentacare® BTMS 25EF	Solvay
Glyceryl Stearate SE	6.50	SustOleo™ GMS SE	Inolex
Hydrogenated Rapeseed Oil	6.00	SustOleo™ TSB	Inolex
Myristic Acid	2.50	FA-1498 Myristic Fatty Acid	Peter Cremer
Stearyl Alcohol	4.00	Adol® 61	Peter Cremer
Lauramide MIPA	7.20	Mackamide® LPA	Solvay
Dimethicone (and) Dimethicone Crosspolymer	0.30	DOWSIL™ 9041 Silicone Elastomer Blend	Dow
<b>PHASE B</b>			
Sorbitol	4.00	Sorbitol Crystalline PWD	ADM
Sodium Methyl Oleyl Taurate	11.00	Geropon® T-77	Solvay
Sodium C14 Olefin Sulfonate	15.00	Rhodacal® LSS-92M/RP	Solvay
Sodium Coco-Sulfate	30.00	Mackol® CAS-100N	Solvay
Calcium Aluminum Borosilicate (and) Silica (and) Titanium Dioxide	1.50	Ronastar® Copper Sparks	
Calcium Aluminum Borosilicate (and) Titanium Dioxide (and) Silica (and) Iron Oxides (and) Tin Oxide	0.50	Ronastar® Golden Jewel	
<b>PHASE C</b>			
Caprylhydroxamic Acid (and) Caprylyl Glycol (and) Glycerin	1.00	Spectrastat™	Inolex
Fragrance	1.50	Kale Fragrance, Code# 004657	Chemia

### Procedure

- 1) Combine phase A ingredients and begin heating to 80-85°C to melt solids.
- 2) Combine phase B ingredients in a separate vessel and gently mix powders.
- 3) Once phase A is melted, add phase B to phase A with mixing.
- 4) Add phase C to AB with mixing, maintaining temperature at 80°C.
- 5) Pour formula while still hot (75-80°C) into molds.
- 6) Cool (≤ 35°C) before packaging.

**Appearance:** White solid bar with gold sparkles

**How to use:** Rub bar directly onto hair or rub bar between hands and apply lather onto hair. Keep bar dry between uses.