

Components of Formulations Tested in Gettings et al. (1996)

Formulation	Formulation Components	% (W/W)	Formulation	Formulation Components	% (W/W)
HZA-Shampoo No. 7	Water	53.86	HZN-Shampoo No. 6	Water	44.381
	Sodium lauryl sulfate (30%)	25.00		Sodium laureth (2EO) sulfate (28%)	43.634
	Disodium laureth sulfocuccinate (40%)	15.00		Cocamidopropyl betaine (30%)	11.760
	Lauramide DEA	0.50		Tetrasodium EDTA	0.125
	Butylene glycol	5.00		Formalin	0.100
	Methyl and propylparabens	0.25			
	Carageenan	0.35			
	Methyl and methylchlorisothiazolinone	0.04			
HZB-Liquid Soap No. 1	Water and volatiles	65-85	HZP-Baby Shampoo No. 1	Water	49.54
	Ammonium lauryl sulfate	1-10		PEG-80 sorbitan laurate (50%)	23.60
	Sodium laureth sulfate	1-10		Sodium trideceth sulfate (50%)	17.40
	Lauramide DEA	1-10		Lauroamphocarboxyglycinate (50%)	5.40
	Glycerine	1-10		PEG-150 distearate (50%)	5.00
	Isosteamidopropyl morpholine lactate	0.1-1.0		Cocamidodrolyl hydroxysultane (50%)	4.00
	Disodium ricinoleamido MEA-sulfosuccinate	0.1-1.0		Sodium laureth-13 carboxylate (50%)	1.00
	DMDM hydantoin	0.1-1.0		Quaternium 15	0.03
	Citric acid	0.1-1.0		Benzyl alcohol	0.05
	Triclosan	0.1-1.0		FD&C Yellow No. 5 (1.0%)	0.25
	Tetrasodium EDTA	<0.1		FD&C Yellow No. 6 (1.0%)	0.05
	FD&C Yellow No. 5	<0.1		Citric acid	0.08
	FD&C Red No. 4	<0.1			
HZC-Shampoo No. 1	Water	14.037	HZQ-Cleansing Gel	Water	68.93
	Laurylamidopropyl betaine (30%)	60.000		Lauroamphocarboxyglycinate (25%)	10.40
	Cetrimonium chloride	16.000		Sodium trideceth sulfate (16%)	10.60
	PEG-3 cocamide	4.500		TEA-lauryl sulfate (40%)	3.50
	Citric acid	3.500		Lauramide DEA	0.50
	Sodium chloride	1.000		PEG-150 distearate	2.80
	Ditallowdimonium chloride (73%)	0.700		Propylene glycol	1.40
	Lauryl alcohol	0.250		Hexylene glycol	1.05
	Methyl and chlorisothiazolinone (1.5%)	0.033		Citric acid	0.28
				Diazolidinyl urea	0.20
		Methylparaben	0.20		
		Sodium citrate	0.14		
HZD-Shampoo No. 5	Water	54.120	HZR-Facial Cleansing Foam	Water	32.97
	Sodium laureth sulfate (26%)	38.00		Sodium cocoyl isethionate	20.00
	Cocamide DEA	3.000		Sodium lauroyl sarcosinate (30%)	25.00
	Cocamide propyl betaine (37%)	1.750		PPG-5-ceteth-10 phosphate	4.00
	Disodium EDTA	0.050		Linoleamide DEA	2.00
	Methylparaben	0.150		Sorbitol (70%)	2.75
	Propylparaben	0.100		Glycol stearate	5.50
	Citric acid	0.250		Glycerin	2.00
	FD&C Yellow No. 5 (1%)	0.050		Diglycerol	2.00
	D&C Red No. 33 (0.5%)	0.015		Cetearyl alcohol	2.75
	DMDM hydantoin (54%)	0.300		Mineral oil	0.50
	BHT	0.050		Methylparaben	0.15
	Sodium glutamate	2.000		Propylparaben	0.10
	Sodium chloride	0.170		Trisodium EDTA	0.10
		Beeswax	0.10		
		Ceresin	0.06		
		Sodium borate	0.02		
HZE-Gel Cleanser	Water	59.974	HZZ-Shower Gel	Water	27.567
	Acylglutamate CT-12 (30%)	15.000		Sodium lauroyl sarcosinate (30%)	25.000
	Cocamphodiacetate (50%)	15.000		Laurimidopropyl betaine (30%)	25.000
	Sodium nonoxynol-6 phosphate (88.5%)	6.000		Cocamidopropyl hydroxysultaine (50%)	15.000
	Quaternium-26 (58%)	1.500		Linoleamide DEA	4.500
	PEG-120-methyl glucose dioleate	1.500		Glycol stearate	1.000
	Citric acid	0.100		Polyquaternium-2	1.000
	Sodium citrate	0.500		Phosphoric acid (86.5%)	0.600
	Disodium EDTA	0.050		Tetrasodium EDTA	0.200
	Methylparaben	0.150		BHT	0.050
	DMDM hydantoin (55%)	0.200		PPG-12-buteth-16	0.050
	FD&C Yellow No. 10 (1%)	0.001		Methyl and chlorisothiazolinone (1.5%)	0.033
	D&C Blue No. 1 (0.746%)	0.025			
HZF-Baby Shampoo No. 2	Water	57.653	HZT-Polishing Scrub	Water	33.85
	Sodium laureth (2EO) sulfate (28%)	21.430		Mineral oil	10.00
	Disodium laureth-3-sulfosuccinate (40%)	9.090		Lauroamphocarboxyglycinate (25%)	8.80
	Cocamidopropyl betaine (30%)	10.000		Sodium trideceth sulfate (16%)	9.40
	Lauramide DEA	1.500		Petrolatum	6.60
	Kathon CG (1.5%)	0.067		Isopropyl palmitate	6.60
	Tetrasodium EDTA (30%)	0.260		Propylene glycol	5.00
				Cetyl palmitate	4.40
		Glyceryl stearate and PEG-100 stearate	4.40		
		Aluminum silicate	3.00		
		Cetyl alcohol	2.50		
		Polypropylene	2.50		
		Magnesium aluminum silicate	1.00		
		Titanium dioxide	0.50		
		Hexylene glycol	0.40		
		Imidazolidinyl urea	0.30		
		Methylparaben	0.30		
		Lactic acid	0.25		
		Propylparaben	0.20		

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<b>HZG-Shampoo No. 8</b>	Water	48.43	<b>HZU-Hand Soap</b>	Water	37.95
	Sodium laureth sulfate (28%)	20.00		Sodium C14-16 olefin sulfonate (36%)	20.25
	Sodium lauryl sulfate (30%)	25.00		Sodium lauroyl sarcosinate	20.00
	Lauramide-DEA	5.00		Cocamidopropyl hydroxysulfate	8.00
	Hydroxyethyl tallow glycinate	1.00		Propylene glycol	3.00
	Citric acid	0.20		Glycerol stearate	3.00
	PEG-45M	0.20		PPG-12-PEG-50 lanolin	3.00
	Methyl and propylparabens	0.13		Polyquaternium-7	2.00
	Methyl and chloromethyl-isothiazolinone	0.04		Citric acid	1.00
<b>HZH-Eye Make-Up Remover</b>	Water	96.242	<b>HZV-Shampoo No. 4</b>	Water	80-90
	Sodium laureth sulfate (21%)	0.900		Ammonium lauryl sulfate	5-10
	Cocamphocarboxyglycinate (40%)	1.100		Lauramide DEA	1-5
	Hexylene glycol	1.000		Cocamidopropyl sulfate	<1.0
	Dipotassium phosphate	0.394		Ammonium chloride USP	<1.0
	Potassium phosphate	0.102		Citric acid	<1.0
	Allantoin	0.050		DMDM hydantoin	<1.0
	Methyl paraben	0.150		Tetrasodium EDTA	<1.0
	EDTA	0.150		Methylparaben	<1.0
Rose water	0.008	FD&C Yellow No. 5	<1.0		
Thimerosal	0.003	D&C Yellow No. 10	<1.0		
<b>HZI-Skin Cleanser</b>	Water	44.0	<b>HZW-Liquid Soap No. 2</b>	Water and volatiles	60-80
	Sodium laureth sulfate (30%)	50.0		TEA-lauryl sulfate	1-10
	Cocamide MEA	5.0		Sodium laureth sulfate	1-10
	Sodium chloride	0.4		Sodium lauroyl sarcosinate	1-10
	Disodium EDTA	0.2		Lauramide DEA	1-10
	Imidazolidinyl urea	0.2		Glycol distearate	1-10
	Methylparaben	0.2		Isostearamideopropyl morpholine lactate	0.1-1.0
	Benzoic acid	0.1		Disodium ricinoleamide MEA-sulfosuccinate	0.1-1.0
				DMDM hydantoin	0.1-1.0
		Citric acid	0.1-1.0		
		Tetrasodium EDTA	<0.1		
<b>HZJ-Mild Shampoo</b>	Water	52.09	<b>HZX-Shampoo No. 2</b>	Water	69.1895
	Tween 20	12.63		Ammonium lauryl sulfate (25%)	25.0000
	Cocamphodiacetate (24%)	21.25		Cocamide DEA	3.0000
	PEG 6000	2.60		Hydroxypropyl methylcellulose	1.4500
	Cedepal TD403 (75%)	6.53		EDTA	0.6000
	Hydrochloric acid (15%)	1.68		Formaldehyde	0.2000
	Arlacel 20	0.92		Benzyl alcohol	0.2000
	Benzyl alcohol	0.10		Benzophenone-4 sodium hydroxide	0.0400
	Dowicel 200	0.10		Citric acid	0.0100
D&C Yellow No. 10 (0.2%)	1.70	Ammonium chloride	0.0100		
D&C Orange No. 4 (0.2%)	0.20	FD&C Blue No. 1	0.0005		
<b>HZK-Bubble Bath</b>	Water	68.75	<b>HZY-Anti-Dandruff Shampoo</b>	Water	27.13
	Sodium laureth sulfate (60%)	25.00		Sodium lauroyl sarcosinate (30%)	15.00
	Lauramide DEA	4.50		Lauramide DEA	4.50
	SD Alcohol 3-A	3.75		TEA-lauryl sulfate (40%)	45.00
	Sodium chloride	0.80		Glycol distearate	3.00
	Triethanolamine	0.40		Zinc pyrithione	2.10
	Phosphoric acid (86.5%)	0.35		Sodium chloride	1.20
	Sorbic acid	0.20		Citric acid	0.90
				Imidazolidinyl urea	0.50
		Methylparaben	0.30		
		Propylparaben	0.10		
		Xanthan gum	0.27		
<b>HZL-Foam Bath</b>	Water	47.760	<b>HZZ-Facial Cleanser</b>	Water	32.55
	Sodium laureth sulfate (26%)	46.000		Mineral oil	40.00
	Cocamido propyl betaine (30%)	2.500		Beeswax	2.30
	Sodium chloride	2.400		PEG-16 soya sterol	5.00
	Glycol monostearate	0.400		PEG-8 dilaurate	2.00
	Color solution	0.300		Cetearyl alcohol (70%)	0.80
	DMDM hydantoin (54%)	0.250		Ceteareth 20 (30%)	0.80
	Methylparaben	0.200		Beheme acid	0.80
	Propylparaben	0.100		Sodium borate	0.75
	BHT	0.050		Ceresin	0.50
	Aloe vera gel	0.015		Carbopol dispersion (25%)	15.00
	Citric acid	0.016		Methylparaben	0.15
	Tetrasodium EDTA	0.010		Propylparaben	0.10
		Disodium EDTA	0.05		
<b>HZM-Shampoo No. 3</b>	Water	80-90			
	Ammonium lauryl sulfate	5-10			
	Lauramide DEA	1-5			
	Cocamidopropyl sulfate	1-5			
	Citric acid	<1.0			
	Ammonium chloride	<1.0			
	DMDM Hydantoin	<1.0			
	Tetrasodium EDTA	<1.0			
	Methylparaben	<1.0			
	FD&C Yellow No. 5	<0.1			
	D&C Yellow No. 10	<0.1			
	FD&C Red No. 4	<0.1			
	PPG-9				