

Chemsoft Conditioner Base

Chemsoft Conditioner Base is a ready to use, economical skin care and hair care cationic conditioner concentrate naturally derived containing Behenyl Trimethyl Ammonium Chloride at a 21 % active quaternary level. This quat ingredient is naturally derived from the renewable resource Rapeseed (Canola) Oil and is based on the primary lipid found on hair surfaces. The other ingredients in this blend are all derived from natural sources - Cetyl Alcohol from vegetable oils; Cocamidopropyl Betaine from coconut oil and Sorbitan Laurate from plant fatty acids and sorbitol. Chemsoft Conditioner Base has been hydrophile/lipophile balanced to ensure the highest viscosity, highest conditioning effect and lowest cost for your skin or hair care formulation. For skin care applications it imparts exceptional suspending and emulsification and leaves a soft, smooth feel even after rinsing. For hair care applications, it provides excellent substantive conditioning, wet combing anti-static properties, detangling, hair softening, suspending and emulsification.

Starter Formulation

Ingredient	Half Gallon Batch		Gallon Batch	
	oz	gm	oz	gm
Distilled Water(78%)	49.9	1397	100	2800
Chemsoft Conditioner Base(6%)	3.85	107	7.70	214
Glycerin (1%)	.64	18	1.28	36
Vegetable Oils (12%)	7.68	215	15.36	430
Vitamin E Acetate (1%)	.64	18	1.28	36
Cyclomethicone (2%)	1.28	36	2.56	72
Preservative: Your Choice				
Germaben II	.5	14	1	28
Optiphen	.75	21	1.5	42
Fragrance	1.28	36	2.56	72

1. Measure out all ingredients by weight, I suggest grams.
2. Heat Water to 160F
3. Mix Chemsoft Conditioner Base with water and blend for 5 minutes until completely dissolved.
4. Once conditioner base is completely dissolved, add glycerin and mix
5. Next add Vegetable Oils and blend completely
6. Add Vitamin E Acetate and blend completely
7. Add cyclomethicone and blend for 5 minutes
8. Add your preservative, color and fragrance desired

Product will thicken as it cools. Do not use a stick blender in this formulation as it will tear the base apart.