

Formulating with JEEQUAT® Products:
Featuring: JEEQUAT® NDCS
Naturally Derived Conditioning System

NEW!

JEEEN International has recognized the need for a natural based system for all your emulsification needs.

Product Description:

JEEQUAT® NDCS

INCI: Cetyl Alcohol and Behentrimonium Chloride and Cocamidopropyl Betaine and Sorbitan Laurate

JEEQUAT® Naturally Derived Conditioning System 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. JEEQUAT® NDCS 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. All ingredients comprising JEEQUAT® NDCS are accepted for Whole Foods Premium standard.



Applications:

- Skin Care
- Hair Care

Benefits:

- Excellent cationic conditioner
- Viscosity enhancer
- Primary emulsion stabilizer
- Suspending properties

Recommended Use Level:
3 - 7%

Product Specifications:

• **Appearance @ 25°C:**
White – Off White Solid

• **Odor:**
Mild, Fatty

• **Melting Point:**
65 - 70°C

• **% Active (Quat):**
19 - 23

Standard Packaging:
Pail: 40lb

Formulations:

Hair Conditioner Naturally! Formulation J7/29A LP

Phase	Ingredients	INCI Nomenclature	%
A	Deionized Water	Water	85.9
B	JEEQUAT® NDCS	Cetyl Alcohol & Behentrimonium Chloride & Cocamidopropyl Betaine & Sorbitan Laurate	6.0
B	Coconut Oil	Cocos Nucifera (Coconut) Oil	3.0
B	Grapeseed Oil	Vitis Vinifera (Grape) Seed Oil	2.0
C	DL Panthenol	Panthenol	0.1
C	Mixed Tocopherols 95	Tocopherol	0.1
C	JEECHEM 100-WP	Hydrolyzed Wheat Protein	1.5
D	JEEPLEX® NAS	Glycerin & Citric Acid & Lactic Acid & Ascorbic Acid	1.0
D	Potassium Sorbate	Potassium Sorbate	0.1
D	Carrubba Fragrance Natural Citrus K4166	Fragrance	0.3
			10% NaOH adjust pH to 4.5 – 5.5

Procedure:

- 1.) Add D.I. Water and heat to 70C.
- 2.) Add in Phase B ingredients one at a time and mix well with prop agitation.
- 3.) Cool batch to 55-60C and add Phase C ingredients.
- 4.) Add in Phase D ingredients one at a time to the batch and mix well.
- 5.) Cool batch to RT.
- 6.) Adjust pH with 10% NaOH if required.

Moisture Control Lotion Naturally! Formulation J7/27A LP

Phase	Ingredients	INCI Nomenclature	%
A	Deionized Water	Water	68.3
A	Glycerin 99	Glycerin	3.0
B	JEEQUAT® NDCS	Cetyl Alcohol & Behentrimonium Chloride & Cocamidopropyl Betaine & Sorbitan Laurate	5.0
B	JEECHEM® CTG Kosher	Caprylic/Capric Triglycerides	5.0
B	Shea Butter	Butyrospermum Parkii(Shea Butter)	3.0
B	Sesame Oil	Sesamum Indicum (Sesame) Seed Oil	4.0
B	Farmal CS 3757	Zea Mays (Corn) Starch	10.0
C	BP Glucan	Beta-Glucan	0.1
C	Tocopherol	Tocopherol	0.2
E	JEEPLEX® NAS	Glycerin & Citric Acid & Lactic Acid & Ascorbic Acid	1.0
E	Potassium Sorbate	Potassium Sorbate	0.1
E	Grapefruit Oil	Citrus Grandis (Grapefruit) Peel Oil	0.3

Procedure:

- 1.) Add D.I. Water and Glycerin.
- 2.) Pre-Mix Phase B and heat to 70C.
- 3.) When phases are at temperature, insert homomixer into Phase A and add Phase B.
- 4.) Cool batch to 55-60C and switch to prop agitation and add Phase C.
- 5.) Cool batch to 55-60°C and add each ingredient in Phase E one at a time.
- 6.) Cool batch to RT with sweep agitation.