

3-Minute Deep Conditioner

CD-0007

This rinse-off, 3-minute conditioning treatment is rich in botanical extracts and silicone conditioning agents. The **Ultracas® G-20 Guerbet Ester** adds gloss and shine to the hair, while the **SilSense™ Silicones** improve the wet and dry aesthetic properties.

	INCI Name, Trade Name	Weight %	Function
A.	1. Deionized Water	91.40	Diluent
	2. Disodium EDTA, Protacide NA-2	0.05	Chelating Agent
	3. Acrylates/C10-30 Alkyl Acrylate Crosspolymer, Carbopol® Ultrez 21 Polymer	0.50	Rheology Modifier
	4. Sodium Hydroxide (18%)	0.40**	Neutralizer
B.	5. Deionized Water	2.50	Diluent
	6. PEG-7 Amodimethicone, SilSense™ A-23 Silicone	0.50	Conditioner
	7. Silicone Quaternium-8, SilSense™ Q-Plus Silicone	0.50	Conditioner
C.	8. Dimethicone PEG-7 Isostearate, SilSense™ DW-18 Silicone	0.50	Conditioner
	9. Dimethicone PEG -7 Oliviate, SilSense™ DW-O Silicone	0.50	Conditioner
	10. Octyldodecyl Ricinoleate, Ultracas® G-20 Guerbet Ester	0.50	Shine Enhancer/Emollient
	11. Glyceryl Stearate (and) PEG-100 Stearate, Arlacel® 165	1.25	Emulsifier
	12. Cetearyl Alcohol, Lanette® O	0.50	Emulsifier
D.	13. Propylene Glycol (and) Diazolidinyl Urea (and) Methylparaben (and) Propylparaben, Germaben® IIE	0.50	Preservative
	14. Propylene Glycol (and) Water (and) Panax Ginseng Root Extract, Vegetal® Ginseng GR 471 Hydro	0.10	Botanical Extract
	15. Propylene Glycol (and) Water (and) Ginkgo Biloba Leaf Extract, Vegetal® Ginkgo Biloba LC 416 Hydro	0.10	Botanical Extract
	16. Propylene Glycol (and) Water (and) Camellia Sinensis Leaf Extract, Optivegetal® The Vert P108 Hydro	0.10	Botanical Extract
E.	17. Fragrance, Jungle Jasmine (829 855)	0.10	Fragrance

** q.s. to 4.8 - 5.0 pH

- Continued Next Page -

Product Properties:

Appearance	Thick, white emulsion
pH	4.8 – 5.0
Viscosity (mPa-s)***	20,000 – 30,000
Stability: Passed 3 months @ 45°C, 3 cycles freeze/thaw	

*** Brookfield RVT @ 20 rpm, 25°C, Spindle #6

Supplier References:

Protameen (2)
Noveon, Inc. (3, 6, 7, 8, 9, 10)
Uniqema (11)
Cognis (12)
ISP/Sutton (13)
Gattefossé (14, 15, 16)
Drom Fragrances International (17)

CD-0007
Previous Formulation #: SIL-0044
Edition: July 12, 2005
Notebook #: 2150-051-03-74
Original Date: May 4, 2004

For more information visit www.noveon.com or www.carbopol.com or contact your nearest Noveon location.

North America
Noveon de Mexico, S.A. de C.V.
Europe, Middle East and Africa
Asia-Pacific Ltd.

9911 Brecksville Road
Av. Interceptor Pre.Num.69 Cuautitlan Izcalli 54730 Edo. de
Chaussée de Wavre, 1945B-1160
1107-1110 Shui On Centre 6-8 Harbour Road

Cleveland, OH 44141
Mexico, Mexico
Brussels, Belgium
Wanchai, Hong Kong

Tel: 216.447.5000
Tel: 52.55.3067.0860
Tel: 32.2.678.19.11
Tel: 852.2508.1021

Tel: 800.379.5389 Fax: 216.447.5250
Fax: 52.55.5870.8957
Fax: 32.2.678.20.02
Fax: 852.2512.2241

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information often is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance or reproducibility. Formulations presented may not have been tested for stability and should be used only as a suggested starting point. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Noveon, Inc. shall not be liable for and the customer assumes all risk and liability for any use or handling of any material beyond Noveon's direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.

Noveon, Inc. is a wholly owned subsidiary of The Lubrizol Corporation
*Trademark owned by The Lubrizol Corporation
© Copyright 2005 Noveon, Inc.

3-Minute Deep Conditioner

CD-0007

Procedure:

PART A

1. Dissolve Disodium EDTA in deionized water using low heat (~40°C).
2. Allow **Carbopol® Ultrez 21 Polymer** to self-wet by sprinkling on surface of deionized water. Begin agitation after polymer has completely wet-out.
3. Neutralize with sodium hydroxide to pH 4.8 - 5.0.

PART B

4. Combine PART B. Add to PART A.
5. Heat main batch to 65°C - 70°C.

PART C

6. Combine PART C. Heat to 65°C - 70°C. Continue heating until all ingredients are dissolved.
7. Add PART C to main batch.
8. Discontinue heating and allow main batch to cool to 40°C or lower with agitation.

PART D

9. Add ingredients 13-16 to main batch one at a time.
10. Add fragrance.