

Conditioning Agent

Condicare SD

INCI Name: Stearamidopropyl Dimethylamine

CAS No.: 7651-02-7 EINECS No.: 231-609-1

Condicare SD is a conditioning agent for hair care applications. It is a fatty amido-functional tertiary amine that can be neutralized with a wide variety of acids to form an amine salt.

The advantage of an amine salt in hair conditioning is that it can be easily rinsed from the hair thus reducing the risk of surfactant build-up.

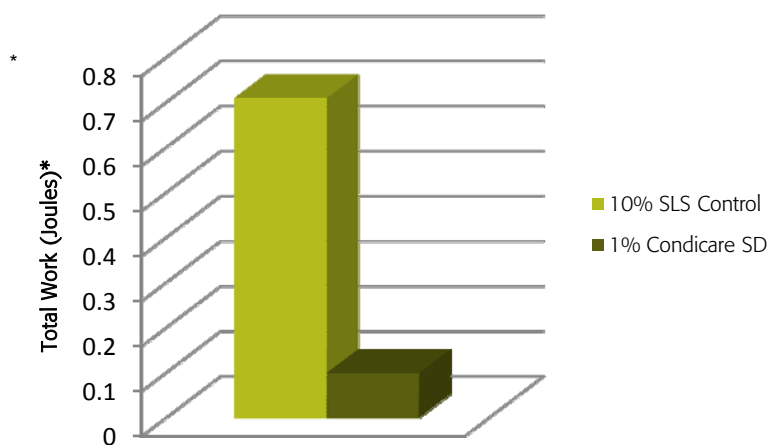
Condicare SD is compatible with nonionic surfactants and can thicken and condition hair without depressing foam in shampoo applications. It can also improve wet and dry combability and will reduce static fly-away.

Applications

Condicare SD is used in hair conditioner applications. It provides substantivity in liquid conditioners, crème rinses, cream hair conditioners, leave-in conditioners and in 2-in-1 shampoos. Condicare SD can also be used as a co-emulsifier in skin care applications.

Condicare SD requires temperatures of $\sim 75^{\circ}\text{C}$ to incorporate into a system. The neutralizing acid used should be added prior to the addition of Condicare SD for optimum solubility.

Condicare SD Wet Combing Data



*Differences are statistically significant at $p < 0.05$ (Wilcoxon Test).



TYPICAL PROPERTIES

Not intended for use in preparing specifications

Appearance @ 25°C	Waxy Flake
Colour (Gardner (@70°C))	5 maximum
Odour	Typical
Alkalinity (mg KOH/g)	145-155
Acid Value (mg KOH/g)	4 maximum
Melting Point (°C)	65-70

Suggested Formulations: Hair Care

Conditioner H0041

Hair conditioner containing Condicare SD to restore softness and shine. Pro-vitamin B5 also strengthens and nourishes the hair.

	INCI Ingredients	Tradename (Supplier)	% w/w
A	Water Stearamidopropyl Dimethylamine Citric Acid Panthenol	Condicare SD (Innospec)	q.s to 100 1.5 0.3 0.5
B	Cetareth-20 Stearyl Alcohol Cetyl Alcohol		0.3 1.5 1.5
C	Cetrimonium Chloride (25% Active)		3.0
D	Preservative Perfume	Euxyl K100 (Schulke & Mayr)	q.s q.s.

Preparation Procedure

1. Heat A to 65°C with stirring
2. Heat B to to 65°C with stirring
3. Add B to A with stirring
4. Allow to cool to 40°C before adding C
5. Add D

Properties

Appearance	White cream
pH	4.5 – 5.5
Viscosity*	2,000 - 3,000 cps
Stability	TBC

Storage

Condicare SD should be stored in a dry location out of direct sunlight in sealed containers at temperatures below 30°C. Handle at temperatures 25-35°C.

For further information, please email your region:

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