



Product Bulletin

Product Name	NINOL® 30-LL	
Chemical Structure	$\text{CH}_3(\text{CH}_2)_{10}\overset{\text{O}}{\parallel}\text{C} - \text{N}(\text{CH}_2\text{CH}_2\text{OH})_2$	
Chemical Description	NINOL 30-LL is a high active lauramide produced via type 1:1 reaction between one mole of the ester of lauric acid and one mole of diethanolamine.	
INCI Name	Lauramide DEA	
Applications	<p><u>Functional Properties</u></p> <ul style="list-style-type: none"> • Viscosity booster • Foam booster • Hair conditioning agent • Stable in neutral, moderately alkaline or acidic systems <p><u>End Product Uses</u></p> <ul style="list-style-type: none"> • Shampoos • Hair dyes & colors • Bubble baths • Bath soaps • Bath products • Detergents 	
Typical Properties	<p>Appearance at 25°C..... Clear, amber liquid</p> <p>Actives, % 100</p> <p>Color, Gardner 5</p> <p>Free amine as DEA, %..... 6.0</p> <p>Moisture, % 0.1</p> <p>Viscosity, cps at 25°C 1050</p> <p>Viscosity, cps at 60°C 104</p> <p>Freeze Point, °C (°F)..... 2 (36)</p>	<p>Flash Point (PMCC), °C (°F)..... >94 (>201)</p> <p>pH, 1% aqueous..... 10</p> <p>Cloud Point, °C (°F)..... 3 (37)</p> <p>Pour Point, °C (°F)..... 14 (57)</p> <p>Density, g/ml (lbs/U.S. gal) 0.983 (8.2)</p> <p>RVOC, U.S. EPA, %..... 0</p> <p>Boiling Point, °C (°F) >150 (>302)</p> <p>PreservativeNot required</p>
Biodegradability	Product is readily biodegradable. A detailed biodegradability statement is available upon request.	
Toxicity	NINOL 30-LL is slightly toxic orally (Oral LD ₅₀ = 2,700 mg/kg). The product causes moderate to severe eye and severe skin irritation at 20% concentration.	
Storage & Handling	<p>Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling NINOL 30-LL. Contact with the eyes and the skin should be avoided. Wash thoroughly after handling material.</p> <p>It is recommended that NINOL 30-LL be stored in sealed containers and kept at temperatures not exceeding 120°F (49°C). As with all DEA amides, if overheating does occur, amide ester will be formed. To reverse the reaction, NINOL 30-LL should be stored at room temperature for approximately one week. Failure to do so may result in formulated products with decreased foam and low viscosity.</p> <p><u>Standard Packaging:</u> NINOL 30-LL is available in bulk and 55 gallon drums.</p>	
Clearances	<p>The international inventories (country clearances) of NINOL 30-LL can be found in Section 15 of the Safety Data Sheet (SDS). It is the responsibility of the formulator to review the chemical control regulations for each country where the end product is intended to be sold or used. If you have any further questions regarding inventories, please contact North American Technical Service at techserv@stepan.com.</p> <p>NINOL 30-LL is available as Kosher Certified.</p>	



CLEAR GEL SHAMPOO

<u>Ingredients</u>	<u>Wt. % (as is)</u>	<u>Function</u>
1. STEOL® CS-130	60.0	Primary Surfactant
2. NINOL 30-LL	5.0	Viscosity & Foam Booster
3. Citric Acid (50%, solution)	q.s.	pH Adjuster
4. Fragrance, Dye, Preservative	q.s.	
5. Sodium Chloride	q.s.	Thickener
6. Deionized Water	q.s. to 100.0	Solvent, Carrier

Mixing Procedure:

Add STEOL CS-130 and NINOL 30-LL to Deionized Water. Mix until clear. Adjust pH to 6.0 - 7.0 with Citric Acid (50% solution). Add fragrance, dye and preservative, if desired. Adjust to desired viscosity with Sodium Chloride.

Physical Properties:

Appearance at 25°C..... Clear, light yellow gel
 Viscosity at 25°C..... 19,000 cps
 pH (as is) 6.0 - 7.0

Product Stewardship

This product bulletin has been written in accordance with ACC's Product Stewardship guidelines.

Additional Safety Information

A Safety Data Sheet is available upon request.



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