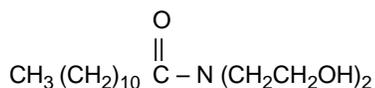


Product Name  
 Chemical Structure  
 CAS Registry No.  
 INCI Name  
 Applications

### NINOL<sup>®</sup> 96-SL



NINOL 96-SL is a methyl ester based lauramide DEA produced via the 1:1 reaction.

120-40-1

Lauramide DEA

#### Functional Properties

- Maximum foam enhancer
- Viscosity booster
- Stable in neutral or moderately alkaline or acidic systems

#### End Product Uses

- Shampoos
- Bubble baths
- Bath soaps
- Detergents
- Bath products

Typical Properties

Appearance at 25°C.....	Solid
Color, Gardner .....	3 max
Free amine as DEA, %.....	5-7%
Actives, % .....	>90%
pH, 2% aqueous.....	10.0
Melting Point, °C (°F) .....	38 (100)
Flash Point (PMCC), °C (°F) .....	>94 (>201)
Density, g/ml (lbs/U.S. gal).....	0.983 (8.2)
RVOC, U.S. EPA, % .....	0
Preservative .....	Not required

Biodegradability

Product is biodegradable. A detailed biodegradability statement is available upon request.

Toxicity

NINOL 96-SL is practically non-toxic orally (LD<sub>50</sub> >5 g/kg) at 25% concentration. The product causes moderate eye at 1% solution and severe skin irritation at 0.5% concentration.

Storage & Handling

Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling NINOL 96-SL. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.

It is recommended that NINOL 96-SL be stored in sealed containers and kept at temperatures not exceeding 120°F (49°C). As with all amides, if overheating does occur, amide ester will be formed. To reverse the reaction, NINOL 96-SL should be stored at room temperature for approximately one week.

Standard Packaging: NINOL 96-SL is available in 55 gallon drums (net weight 420 lb/190 kg).

Clearances

All components of NINOL 96-SL are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: United States (TSCA 120-40-1), Europe (EINECS 204-393-1), Japan (ENCS 2-827), Canada (DSL 120-40-1), Australia (AICS 120-40-1), Korea (ECL Serial No. KE-03194) and China (EICS 120-40-1).

NINOL 96-SL is available as Kosher Certified.



Formulation

**DEODORIZING BODY WASH**

(Ref. #639)

<u>Ingredients</u>	<u>Wt. % (as is)</u>
<u>Phase 1</u>	
Deionized Water	q.s. to 100.0
STEPAN-MILD® LSB	60.0
STEPANOL® WAT	25.0
NINOL 96-SL	4.0
<u>Phase 2</u>	
Propylene Glycol	1.5
Irgasan DP 300 (Ciba) Triclosan	0.5
<u>Phase 3</u>	
PEG-8 Laurate (HALLSTAR PEG 400 ML)	2.0
Peptin 2000 (Hormel) Hydrolyzed Collagen	0.5
Sodium Hydroxide, 50% solution	q.s.
Sodium Chloride	q.s.
Fragrance, Dye & Preservative	q.s.

**Mixing Procedure:**

Prepare Phase 1 by combining first four ingredients in a container and heat to 165°F with mixing. When uniform, cool to 110°F. Meanwhile, in a separate container, combine Phase 2. Mix until Irgasan DP 300 is dissolved. Add to Phase 1. While mixing, add first two ingredients from Phase 3. Adjust pH to 6.0–6.5 with Sodium Hydroxide. Adjust viscosity with Sodium Chloride, if necessary. Add Fragrance, Dye, and Preservative as desired.

**Physical Properties:**

Appearance..... Clear, light yellow liquid  
 Viscosity, at 25°C (without salt), cps ..... 4000  
 pH (as is)..... 6.0 – 6.5

**Instructions for Use:**

Apply to wet skin, lather and rinse.

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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