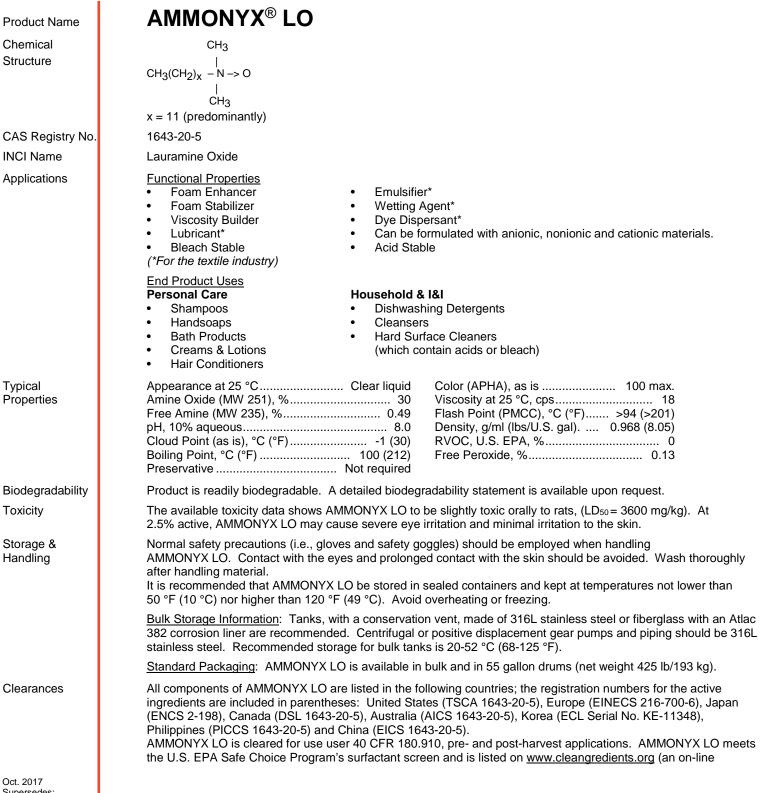
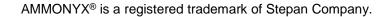
Stepan_®

Product Bulletin



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Formulations

database for green formulators). For further information, visit www.cleangredients.org. Additional Stepan ingredient listing can be found at www.stepan.com. **CONDITIONING SHAMPOO**

Formulations	CONDITIONING SHAMPOO				
	Ingredients		<u>Wt, % (as is)</u>	Function	
		//PHOSOL [®] CA	32.8	Cosurfactant	
		MONYX LO	32.0	Cosurfactant	
		MONYX 4	1.7	Conditioning Agent	
	-	eservative, Dye, Fragrance	q.s.	Additives	
		tric Acid (50%)	q.s.	pH Adjuster	
		stilled Water	q.s. to 100.0	Solvent, Carrier	
		dium Chloride	q.s. to 100.0 q.s.	Thickener	
	Mixing Procedu		4.3.	Therefore	
	Add AMPHOSOL CA, AMMONYX LO and AMMONYX 4 to water. Heat with mixing to 40-50 °C (104-122 °F), until				
	AMMONYX 4 is completely blended into solution. Cool to 30-35°C (86-95°F). Add perfume, preservative and dye, as desired. Adjust pH with citric acid to 6.0 - 6.5. Add sodium chloride to achieve desired viscosity. Changing pH				
					changes properties.
	Physical Properties:				
	pH (as is)			60-65	
	Appearance at 25 °C Liquid				
	GENTLE SHAMPOO				
	Ingredie	ate	<u>Wt, % (as is)</u>	<u>Function</u>	
			EOL [®] CS-330	<u>30.0</u>	Primary Surfactant
				•	
			15.0	Secondary Surfactant	
			1.0	Foam Enhancer/Foam Stabilizer	
		NOL [®] 40-CO	2.0	Foam Enhancer/Viscosity Booster	
		ycerin	3.0	Humectant	
	6. Me	ethocel E4M (Dow Chemical)	0.4	Thickener	
		dium Chloride	1.0	Thickener	
		tric Acid (50%)	q.s.	pH Adjuster	
	9. Pr	eservative, Dye, Fragrance	q.s.	Additives	
	10. Di	stilled Water	q.s. to 100.0	Solvent, Carrier	
	Mixing Procedure:				
	Heat one third of the required water to 80 °C (176 °F). Add Methocel E4M and agitate until all particles have been				
	dispersed. Turn off heat and add the remainder of the water. Agitate until the solution is clear and particle free. Add				
	items 1 through 6 and blend until homogeneous. Adjust pH with citric acid to 6.0 - 6.5. Viscosity may be modified by				
	adjusting the sodium chloride content.				
	Physical Propert	ies:			
	pH (as is)				
	Appearance at 25 °C Liquid				
Product	This product bulletin has been written in accordance with ACC's Product Stewardship guidelines.				
Stewardship					
				C.	
Additional	A Safety Data Sheet is available upon request.				
Safety		Responsible Care'			
Information					
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