



**Data Sheet**

SICC Product Code: V2509

Updated: December 2008

<b>Product Name</b>	<b>NEODOL LM 1214-2</b>			
<b>Category</b>	<b>Oleo Alcohol Ethoxylate</b>			
<b>Description</b>	<ul style="list-style-type: none"> <li>NEODOL LM 1214-2 ethoxylate is based on detergent alcohols derived from oleochemical processes, with an average of 1.8 moles of ethylene oxide per mole of alcohol. The typical content of C16 alcohol is in the range of 4-8 %.</li> <li>NEODOL LM 1214-2 and its sulfate are suitable for a variety of applications, including personal care products (shampoos and body wash), agricultural surfactants and adjuvants, and household cleaning.</li> </ul>			
<b>Typical Chemical Properties <sup>a</sup></b>	<b>Property</b>	<b>Unit</b>	<b>Value</b>	<b>Method</b>
	Hydroxyl number	mg KOH/g	198-208	SMS 1848
	Molecular mass	g/mol	270-283	SMS 1848
	EO/Alcohol ratio	mol/mol	1.6-2.0	SMS 1848
	Color	Pt-Co	30 max	ASTM D1209
	Water	%m/m	0.1 max	ASTM E1064
	Polyethylene glycol	%m/m	1 max	SMS 1528
	Appearance	Visual	LCSH <sup>b</sup>	Visual
	Acid number	mg KOH/g	0.05-0.20	SMS 2912
	Ash	%m/m	0.2 max	ASTM D482
<p><sup>a</sup>: An official sales specification is available from your local Shell Chemicals representative  <sup>b</sup>: Liquid, clear to slightly hazy</p>				
<b>Typical Physical Properties</b>	<b>Property</b>	<b>Unit</b>	<b>Value</b>	<b>Method</b>
	Density @ 40°C	kg/l	0.891	ASTM D4052
	Flash Point	°C	149	ASTM D92
		°F	300	
	Pour Point	°C	8	ASTM D97
		°F	46	
HLB Number		5.7	calculated	
Viscosity, Kinematic @ 40°C	CST or mm <sup>2</sup> /s	13	ASTM D 445	
<b>Storage and Handling</b>	<p>Advice on the storage and handling of Shell alcohol ethoxylates can be found on our web site at <a href="http://www.shell.com/chemicals/neodol">www.shell.com/chemicals/neodol</a> or by contacting your local Shell Chemicals representative.</p>			

<b>Hazard Identification</b>	<p>Alcohol ethoxylates are eye irritants. While these products show only slight to moderate skin irritancy, prolonged and repeated contact can dry and de-fat the skin resulting in dermatitis. Alcohol ethoxylates are of low to moderate oral, skin and respiratory toxicity. Before handling the product refer to the Safety Data Sheet, which is available online or from your local Shell Chemicals representative.</p>
<b>Emergency Helpline</b>	<p>Europe (Rotterdam) + 31 (0) 10 431 3233  Americas (United States) + 1 800 424 9300  Asia (Singapore) +65 6263 2974  Or call the emergency telephone number mentioned in the Safety Data Sheet relevant for your company's country and language.</p>
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