



Product Bulletin

Product Name	STEOL[®] CA-330																																		
Chemical Structure	$\text{CH}_3(\text{CH}_2)_{10}\text{CH}_2(\text{OCH}_2\text{CH}_2)_3\text{OSO}_3\text{NH}_4$																																		
CAS Registry No.	32612-48-9																																		
INCI Name	Ammonium Laureth Sulfate																																		
Chemical Description	STEOL CA-330 is an aqueous solution of ammonium lauryl ether sulfate derived from fatty alcohols, ethoxylated to an average of three moles, and sulfated via Stepan's continuous SO_3 process.																																		
Applications	<p>STEOL CA-330 is an excellent surfactant for low pH liquid shampoos, bath and cleansing products. It offers excellent foam and viscosity characteristics. STEOL CA-330 provides improved mildness over ammonium lauryl sulfate. It is recommended for children's products due to low skin irritation properties. STEOL CA-330 is hydrolytically stable in low pH formulations.</p> <p>STEOL CA-330 based products can be readily thickened with salts, amides, amine oxides and betaines and by modifying the additive levels, formulas exhibiting a variety of both performance and physical attributes can be developed.</p>																																		
Typical Properties	<table><tr><td>Appearance at 25°C</td><td>Clear yellow liquid</td></tr><tr><td>Actives, % (EW 420)</td><td>28.0</td></tr><tr><td>Unulfated Alcohol, %</td><td>0.8</td></tr><tr><td>Ammonium Chloride, %</td><td>0.5</td></tr><tr><td>Ammonium Sulfate, %</td><td>0.3</td></tr><tr><td>pH, 10% aqueous</td><td>6.5</td></tr><tr><td>Color, %T at 420 nm</td><td>85</td></tr><tr><td>Cloud Point (as is), °C (°F)</td><td>-1 (30)</td></tr><tr><td>Pour Point, °C (°F)</td><td>2 (35)</td></tr><tr><td>Viscosity, cps at 25°C</td><td>328</td></tr><tr><td>Viscosity, cps at 60°C</td><td>344</td></tr><tr><td>Density, g/ml (lbs/U.S. gal.)</td><td>1.07 (8.9)</td></tr><tr><td>Flash Point (PMCC), °C (°F)</td><td>>93 (>200)</td></tr><tr><td>Boiling Point, °C (°F)</td><td>>100 (>212)</td></tr><tr><td>Freeze Point, °C (°F)</td><td>-1 (30)</td></tr><tr><td>RVOC, U.S. EPA, %</td><td>0</td></tr><tr><td>Preservative</td><td>Formaldehyde</td></tr></table>	Appearance at 25°C	Clear yellow liquid	Actives, % (EW 420)	28.0	Unulfated Alcohol, %	0.8	Ammonium Chloride, %	0.5	Ammonium Sulfate, %	0.3	pH, 10% aqueous	6.5	Color, %T at 420 nm	85	Cloud Point (as is), °C (°F)	-1 (30)	Pour Point, °C (°F)	2 (35)	Viscosity, cps at 25°C	328	Viscosity, cps at 60°C	344	Density, g/ml (lbs/U.S. gal.)	1.07 (8.9)	Flash Point (PMCC), °C (°F)	>93 (>200)	Boiling Point, °C (°F)	>100 (>212)	Freeze Point, °C (°F)	-1 (30)	RVOC, U.S. EPA, %	0	Preservative	Formaldehyde
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Storage & Handling	Normal safety precautions (i.e. gloves and safety goggles) should be employed when handling STEOL CA-330. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.																																		

STEOL[®] is a registered trademark of Stepan Company.



Storage & Handling

It is recommended that STEOL CA-330 be stored in sealed containers and kept at temperatures between 45°F (7°C) and 100°F (43.3°C). Avoid overheating or freezing. If material is frozen, mild heat and agitation are recommended to ensure the material is homogeneous.

Bulk Storage Information: Tanks made of 316 stainless steel are recommended. Centrifugal pumps or positive displacement gear pumps and piping should be 316 stainless steel. Recommended storage for bulk tanks is 90-110°F (32-43°C).

Standard Packaging: STEOL CA-330 is available in bulk and 55 gallon drums (net weight 450 lb/204 kg).

Clearances

All components of STEOL CA-330 are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: Europe (EINECS-polymer exemption), Japan (ENCS 7-155), Canada (DSL 32612-48-9), Australia (AICS 32612-48-9), Korea (ECL Serial No. KE-28998), Philippines (PICCS 32612-48-9), and China (EICS Part 3).

STEOL CA-330 is available as Kosher Certified.

Additional Safety Information

A Material Safety Data Sheet is available upon request.

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Page 2 of 2

