

Product Bulletin

Product Name	STEPANOL® AM																																				
Chemical Structure	$\text{CH}_3 (\text{CH}_2)_{10} \text{CH}_2 \text{OSO}_3 \text{NH}_4$																																				
CAS Registry No.	68081-96-9																																				
INCI Name	Ammonium Lauryl Sulfate																																				
Applications	<p>STEPANOL AM is an ammonium lauryl sulfate manufactured from fatty alcohols sulfated via Stepan's continuous SO_3 process. This process allows the consistent production of a high purity product such as STEPANOL AM.</p> <p>STEPANOL AM can be used in acidic shampoos and other personal care formulations such as handsoaps and bath products. It can also be used in many detergent applications. STEPANOL AM has an excellent viscosity response when formulated correctly with alkanolamides and amphoterics, and it generates large quantities of foam. Since it is a high foaming product, it can be used in rug and upholstery shampoos. STEPANOL AM will give off an ammonia odor when the pH is alkaline.</p> <p>STEPANOL AM contains hydrotrope and therefore, provides a product with easier handling properties.</p>																																				
Typical Properties	<table> <tr> <td>Appearance at 25°C.....</td><td>Viscous Liquid</td></tr> <tr> <td>Actives (MW 297), %.....</td><td>28.5</td></tr> <tr> <td>Unsulfated Material, %.....</td><td>0.91</td></tr> <tr> <td>Ammonium Chloride, %.....</td><td>0.22</td></tr> <tr> <td>Ammonium Sulfate, %.....</td><td>0.50</td></tr> <tr> <td>pH, 10% aqueous.....</td><td>6.5</td></tr> <tr> <td>Color (%T at 420 nm), as is.....</td><td>96</td></tr> <tr> <td>Viscosity at 25°C, cps.....</td><td>1990</td></tr> <tr> <td>Viscosity at 60°C, cps.....</td><td>1000</td></tr> <tr> <td>Cloud Point (as is), °C (°F).....</td><td>20 (68)</td></tr> <tr> <td>Pour Point, °C (°F).....</td><td>12 (54)</td></tr> <tr> <td>Boiling Point, °C (°F).....</td><td>100 (212)</td></tr> <tr> <td>Freeze Point, °C (°F).....</td><td>9 (48)</td></tr> <tr> <td>Flash Point (PMCC), °C (°F).....</td><td>>93.9 (>201)</td></tr> <tr> <td>Critical Micelle Concentration, mg/L.....</td><td>136</td></tr> <tr> <td>Density, g/ml (lbs/U.S. gal).....</td><td>0.998 (8.31)</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.....	Viscous Liquid	Actives (MW 297), %.....	28.5	Unsulfated Material, %.....	0.91	Ammonium Chloride, %.....	0.22	Ammonium Sulfate, %.....	0.50	pH, 10% aqueous.....	6.5	Color (%T at 420 nm), as is.....	96	Viscosity at 25°C, cps.....	1990	Viscosity at 60°C, cps.....	1000	Cloud Point (as is), °C (°F).....	20 (68)	Pour Point, °C (°F).....	12 (54)	Boiling Point, °C (°F).....	100 (212)	Freeze Point, °C (°F).....	9 (48)	Flash Point (PMCC), °C (°F).....	>93.9 (>201)	Critical Micelle Concentration, mg/L.....	136	Density, g/ml (lbs/U.S. gal).....	0.998 (8.31)	RVOC, U.S. EPA, %.....	0	Preservative.....	Formaldehyde
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Biodegradability	Product is biodegradable. Additional information is available upon request.																																				
Toxicity	STEPANOL AM is slightly toxic orally (LD_{50} is 4.7 g/kg) and may cause moderate to severe irritation to eyes and severe irritation to skin at 10% active.																																				
Storage & Handling	Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling STEPANOL AM. Contact with the eyes and skin should be avoided. Wash thoroughly after handling material.																																				



Storage & Handling

It is recommended that STEPANOL AM be stored in sealed containers and kept at temperatures above 49°F (9°C). Avoid overheating or freezing. If material is frozen, mild heat and agitation are recommended to ensure the material is homogeneous before use.

Bulk Storage Information: Tanks made of 316 stainless steel or fiberglass with an Atlac 382 corrosion liner are recommended. Gear pumps and piping should be 316 stainless steel. Recommended storage for bulk tanks is 90-125°F (32-52°C).

Standard Packaging: STEPANOL AM is available in bulk and 55 gallon drums.

Clearances

The international inventories (country clearances) of STEPANOL AM 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 America Technical Service at techserv@stepan.com.

STEPANOL AM is available as Kosher Certified.

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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