

Product Name	ALPHA FOAMER®																										
Chemical Description	Ammonium Alkyl Ether Sulfate																										
CAS Registry No.	68891-29-2																										
Applications	ALPHA FOAMER is a new generation ammonium alkyl ethoxy sulfate containing a mix of oligomeric components that gives it unique properties in the manufacture of gypsum wallboard. ALPHA FOAMER provides maximum foaming power in soft and hard water, saturated brine, and gypsum solutions. ALPHA FOAMER is a cost efficient wallboard foamer that imparts uniquely improved characteristics to gypsum wallboard often enabling reductions in other additives. Advantages realized with ALPHA FOAMER are increased compressive strength of the wallboard and improvement in nail pull. ALPHA FOAMER is a patented Stepan product (US Patent Number 5,240,639).																										
Typical Properties	<table border="0"> <tr> <td>Appearance at 25 °C.....</td> <td>Clear, yellow liquid</td> </tr> <tr> <td>pH, 10% aqueous</td> <td>7.0 - 7.5</td> </tr> <tr> <td>Actives (EW 277), %</td> <td>51-53</td> </tr> <tr> <td>Pour Point, °C (°F)</td> <td>-25 (-13)</td> </tr> <tr> <td>Freeze Point, °C (°F).....</td> <td>-25 (-13)</td> </tr> <tr> <td>Cloud Point, as is, °C (°F)</td> <td>-8 (18)</td> </tr> <tr> <td>Color, Gardner</td> <td>4 max.</td> </tr> <tr> <td>Viscosity at 25 °C, cps</td> <td>20</td> </tr> <tr> <td>Viscosity at 60 °C, cps</td> <td>7</td> </tr> <tr> <td>Flash Point, PMCC, °C (°F)</td> <td>28 (82)</td> </tr> <tr> <td>Density, g/ml (U.S. lbs/ gal).....</td> <td>1.03 (8.6)</td> </tr> <tr> <td>Critical Micelle Concentration (g/L) in D.I. Water.....</td> <td>2.18</td> </tr> <tr> <td>RVOC, U.S. EPA, % (Ethanol).....</td> <td>15</td> </tr> </table>	Appearance at 25 °C.....	Clear, yellow liquid	pH, 10% aqueous	7.0 - 7.5	Actives (EW 277), %	51-53	Pour Point, °C (°F)	-25 (-13)	Freeze Point, °C (°F).....	-25 (-13)	Cloud Point, as is, °C (°F)	-8 (18)	Color, Gardner	4 max.	Viscosity at 25 °C, cps	20	Viscosity at 60 °C, cps	7	Flash Point, PMCC, °C (°F)	28 (82)	Density, g/ml (U.S. lbs/ gal).....	1.03 (8.6)	Critical Micelle Concentration (g/L) in D.I. Water.....	2.18	RVOC, U.S. EPA, % (Ethanol).....	15
Appearance at 25 °C.....	Clear, yellow liquid																										
pH, 10% aqueous	7.0 - 7.5																										
Actives (EW 277), %	51-53																										
Pour Point, °C (°F)	-25 (-13)																										
Freeze Point, °C (°F).....	-25 (-13)																										
Cloud Point, as is, °C (°F)	-8 (18)																										
Color, Gardner	4 max.																										
Viscosity at 25 °C, cps	20																										
Viscosity at 60 °C, cps	7																										
Flash Point, PMCC, °C (°F)	28 (82)																										
Density, g/ml (U.S. lbs/ gal).....	1.03 (8.6)																										
Critical Micelle Concentration (g/L) in D.I. Water.....	2.18																										
RVOC, U.S. EPA, % (Ethanol).....	15																										
Biodegradability	Product is readily biodegradable. Additional information is available upon request.																										
Toxicity	Alkyl ether sulfates are practically non-toxic orally (LD ₅₀ >5 g/kg) and minimally irritating to skin and eyes at 1%.																										
Storage & Handling	<p>Handle ALPHA FOAMER with care; use away from sparks and open flame. Use in well ventilated area. Contact with eyes, nose or prolonged skin contact should be avoided. Use gloves and safety goggles when handling ALPHA FOAMER. Wash thoroughly after handling material.</p> <p><u>Standard Packaging:</u> ALPHA FOAMER is available in 55 gallon drums (462 lb/209 kg) and in bulk quantities. It is recommended that ALPHA FOAMER be stored in sealed containers and kept in a cool, dry place.</p> <p>ALPHA FOAMER should be stored in 316 stainless steel. Atmospheric storage with flame arrestor is recommended. All fittings should be electrically grounded. Material can be stored between 60 – 85 °F (15 – 29 °C). An internal hairpin coil of 316 stainless steel with low pressure steam (under 50 psig) should be used if heating is required. Pumps, pipes and transfer lines should be 316 stainless steel.</p>																										
Clearances	All components of ALPHA FOAMER are listed in the following countries; the registration numbers for the active ingredients are listed in parentheses: Europe (NLP NO. 500-233-2), Canada (DSL 68891-29-2), Australia (AICS 68891-29-2), Philippines (PICCS 68891-29-2), and New Zealand (NZIoC 68891-29-2). China (IECSC), Japan (ENCS), Taiwan (TCSI), USA (TSCA).																										



Product
Stewardship

Additional
Safety
Information

This product bulletin has been written in accordance with ACC's Product Stewardship guidelines.

A Safety Data Sheet is available upon request.



The information contained herein is based on the manufacturer's own study and the works of others and is subject to change without prior notice. The information is not intended to be all-inclusive, including as to the manner and conditions of use, handling, storage or disposal or other factors that may involve additional legal, environmental, safety or performance considerations. Nothing contained herein grants or extends a license, express or implied, in connection with any patents issued or pending of the manufacturer or others, or shall be construed as a recommendation to infringe any patents or to violate any applicable laws. STEPAN COMPANY MAKES NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR USE, AND NO WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE, INCLUDING REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY, ACCURACY, COMPLETENESS, ADEQUACY OR OTHERWISE. Stepan Company (and its employees, subsidiaries and affiliates) shall not be liable (regardless of fault) to the vendee, its employees, or any other party in respect of this information, including in respect of its accuracy, completeness, adequacy, furnishing, use, or reliance upon, and the vendee assumes and releases Stepan Company (and its employees, subsidiaries and affiliates) from all liability, whether in tort, contract or otherwise to the fullest extent possible under the relevant law.

Stepan 
Corporate Headquarters
Northfield, Illinois 60093, U.S.A.
Phone: 847-446-7500
Fax: 874-501-2100
Website: www.stepan.com

For Technical Service Call:
Stepan North America **+1-800-745-7837**
Stepan Mexico **+55-11-5089-2208**
Stepan Quimica **+55-11-5089-2200**
Stepan Colombia **+571-636-2808**
Stepan Europe **+33-476-505-160**
Stepan Asia **+656-879-9855**
Stepan Philippines **+656-879-9855**

For Customer Service Call:
Stepan North America **+1-800-457-7673**
Stepan Mexico **+52-555-533-1967**
Stepan Quimica **+55-11-5089-2200**
Stepan Colombia **+57-6-8993125**
Stepan UK **+44-161-338-5511**
Stepan France **+33-476-50-51-00**
Stepan Philippines **+63-2-842-7951**