



## Product Bulletin

Product Name	<b>STEPANOL<sup>®</sup> DCFAS-F</b>																				
Chemical Structure	R—O—SO <sub>3</sub> Na    R = C <sub>12-18</sub>																				
INCI Name	Sodium Coco Fatty Alcohol Sulfate																				
CAS No.	68955-19-1																				
Applications	<p>STEPANOL DCFAS-F is an alkyl sulfate produced from the sulfation of broad-cut coco-fatty alcohol via Stepan's continuous SO<sub>3</sub> process. The product of this process is then dried via a scrape-walled evaporator and goes through a flaker to produce high active flakes of exceptional quality.</p> <p>STEPANOL DCFAS-F can be combined with surfactants commonly used in the laundry and cleaning industry to make products such as dishwashing liquids and liquid/powder laundry detergents. STEPANOL DCFAS-F can also be incorporated into shampoos, body washes, liquid hand soaps, facial cleansers, shaving foams, bar soaps, and other personal care applications to provide a more rapid viscosity response than other anionic surfactants (Sodium Lauryl Sulfate, Sodium Lauryl Ether Sulfate, and Alpha Olefin Sulfonate) and cost savings while maintaining product performance.</p>																				
Typical Properties	<table border="0"> <tr> <td>Appearance at 25°C.....</td> <td>White to off-white flakes</td> </tr> <tr> <td>Actives, % (MW 308) .....</td> <td>91</td> </tr> <tr> <td>pH, 1% aqueous .....</td> <td>10.5</td> </tr> <tr> <td>Moisture, % .....</td> <td>4.0</td> </tr> <tr> <td>Color, %T, as is.....</td> <td>93.0</td> </tr> <tr> <td>Density, approx. g/mL (lbs/U.S. gal) .....</td> <td>0.60 (5.0)</td> </tr> <tr> <td>Critical Micelle Concentration, mg/L.....</td> <td>145.6</td> </tr> <tr> <td>Surface Tension, 145.6 mg/L, dynes/cm at 25°C.....</td> <td>24.6</td> </tr> <tr> <td>Flash Point, °C (°F).....</td> <td>&gt;94 (&gt;201)</td> </tr> <tr> <td>RVOC, US EPA, % .....</td> <td>0</td> </tr> </table>	Appearance at 25°C.....	White to off-white flakes	Actives, % (MW 308) .....	91	pH, 1% aqueous .....	10.5	Moisture, % .....	4.0	Color, %T, as is.....	93.0	Density, approx. g/mL (lbs/U.S. gal) .....	0.60 (5.0)	Critical Micelle Concentration, mg/L.....	145.6	Surface Tension, 145.6 mg/L, dynes/cm at 25°C.....	24.6	Flash Point, °C (°F).....	>94 (>201)	RVOC, US EPA, % .....	0
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Biodegradability	Product is readily biodegradable. A detailed biodegradability statement is available upon request.																				
Toxicity	STEPANOL DCFAS-F is slightly toxic orally to mammals (LD <sub>50</sub> is between 0.8 to 1.1 g/kg) and aquatic organisms (LC <sub>50</sub> = 11.1 mg/L). At 10% active, it causes mild to moderate skin and eye irritation.																				
Storage & Handling	<p>Normal safety precautions (i.e. dust mask, goggles and gloves) should be worn when handling STEPANOL DCFAS-F. This product should be used in a well-ventilated area. Avoid inhaling dust. Contact with the eyes and prolonged contact with the skin should be avoided. Wash thoroughly after handling material.</p> <p>It is recommended that STEPANOL DCFAS-F be stored in sealed containers and kept in a cool, dry place to avoid agglomeration.</p> <p><u>Standard Packaging:</u> STEPANOL DCFAS-F is available in WPP Bags (net weight 25 kg) or PP Supersacks (600 kg).</p>																				
Clearances	All components of STEPANOL DCFAS-F are listed in the following countries; the registration numbers for the active ingredients are included in parentheses: Europe (EINECS 273-257-1), Canada (DSL 68955-19-1), Australia (AICS 68955-19-1), United States (TSCA 68955-19-1), Philippines (PICCS 68955-19-1), Korea (ECL KE-32624; 68955-19-1), Japan (ENCS 2-1679) and China (IECSC 68955-19-1).																				

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Additional  
Safety  
Information

A Material Safety Data Sheet is available upon request.

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