



## Product Bulletin

Product Name	<b>STEPANOL<sup>®</sup> DCFAS-P</b>																				
Chemical Structure	$R-O-SO_3Na$ $R = C_{12-18}$																				
INCI Name	Sodium Coco Fatty Alcohol Sulfate																				
CAS No.	68955-19-1																				
Applications	<p>STEPANOL DCFAS-P is an alkyl sulfate produced from the sulfation of broad-cut coco-fatty alcohol via Stepan's continuous <math>SO_3</math> process. The product of this process is then dried via a scrape-walled evaporator and milled via a grinder to produce high active powder of exceptional quality.</p> <p>STEPANOL DCFAS-P 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-P 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><tr><td>Appearance at 25°C.....</td><td>White to off-white powder</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 powder	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-P is slightly toxic orally to mammals ( $LD_{50}$ is between 0.8 to 1.1 g/kg) and aquatic organisms ( $LC_{50} = 11.1$ 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-P. 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-P be stored in sealed containers and kept in a cool, dry place to avoid agglomeration.</p> <p><u>Standard Packaging:</u> STEPANOL DCFAS-P 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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**Stepan** 

**STEPAN PHILIPPINES INC.**  
(Plant-Head Office)  
CAIP, Bauan, Batangas, Philippines  
Tel: +63(43) 727-2828  
Fax: +63(43) 727-2830

**STEPAN PHILIPPINES INC.** (Sales Office)  
7<sup>th</sup> Floor, NOL Tower, Madrigal Business Park,  
Alabang, Muntinlupa City, Philippines  
Tel: +63(2)842-9751  
Fax: +63(2) 842-1236

