

Product Bulletin

Product Name	STEPANOL[®] DCFAS-P
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 SO_3 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	<p>Appearance at 25°C..... White to off-white powder</p> <p>Actives, % (MW 308) 91</p> <p>pH, 1% aqueous 10.5</p> <p>Moisture, % 4.0</p> <p>Color, %T, as is..... 93.0</p> <p>Density, approx. g/mL (lbs/U.S. gal) 0.60 (5.0)</p> <p>Critical Micelle Concentration, mg/L..... 145.6</p> <p>Surface Tension, 145.6 mg/L, dynes/cm at 25°C..... 24.6</p> <p>Flash Point, °C (°F)..... >94 (>201)</p> <p>RVOC, US EPA, % 0</p>
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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