



Product Bulletin

STEPANOL® DCFAS-N

Product Name																					
Chemical Structure	$R\text{C}_{12-18}\text{SO}_3\text{Na}$ R = C12-18																				
INCI Name	Sodium coco-sulfate																				
CAS No.	68955-19-1 (Alternate CAS Number 97375-27-4)																				
Applications	<p>STEPANOL DCFAS-N is an alkyl sulfate produced from the sulfation of broad-cut coco-fatty alcohol via Stepan's continuous SO₃ process. The product of this process is then dried via a scrape-walled evaporator and needled via an extruder to produce high active needles of exceptional quality.</p> <p>STEPANOL DCFAS-N 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-N 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 needles</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 at 25 °C, 145.6 mg/L, dynes/c</td><td>24.6</td></tr><tr><td>Flash Point, °C (°F)</td><td>>94 (>201)</td></tr><tr><td>RVOC, US EPA, %</td><td>0</td></tr></table>	Appearance at 25 °C.....	White to off-white needles	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 at 25 °C, 145.6 mg/L, dynes/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-N is slightly toxic orally to mammals (LD50 is between 0.8 to 1.1 g/kg) and aquatic organisms (LC50 = 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-N. 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-N be stored in sealed containers and kept in a cool, dry place to avoid agglomeration.</p> <p><u>Standard Packaging:</u> STEPANOL DCFAS-N 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).

STEPANOL DCFAS-N meets the U.S. EPA Safe Choice Program's surfactant screen and is listed on www.cleangredients.org (an on-line database for green formulators). For further information, visit www.cleangredients.org. Additional Stepan ingredient listing can be found at www.stepan.com.

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.

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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