

Product Bulletin

STEPANOL® DCFAS-N

Product Name																					
Chemical Structure	R-O-SO ₃ 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 needles to breakable lumps</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 (5% active in water)</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 needles to breakable lumps	Actives, % (MW 308)	91	pH, 1% aqueous	10.5	Moisture, %	4.0	Color, %T (5% active in water)	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
Appearance at 25°C.....	White needles to breakable lumps																				
Actives, % (MW 308)	91																				
pH, 1% aqueous	10.5																				
Moisture, %	4.0																				
Color, %T (5% active in water)	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																				
Environmental Effects	Product is readily biodegradable. A detailed biodegradability statement is available upon request.																				
Health Effects	STEPANOL DCFAS-N 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-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 or PP Supersacks.</p>																				



Clearances

The international inventories (country clearances) of STEPANOL DCFAS-N can be found in Section 15 of the Safety Data Sheet (SDS). 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. If you have any further questions regarding inventories, please contact North America Technical Service at techserv@stepan.com.

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.

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.



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
Northbrook, Illinois 60062, 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**