

## Product Bulletin

Product Name	<b>STEPANOL® DCFAS-N</b>																				
Chemical Structure	R-O-SO <sub>3</sub> Na R = C12-18																				
INCI Name	Sodium coco-sulfate																				
CAS Registry Number	68955-19-1 (Alternate CAS Number 97375-27-4)																				
Applications	<p>STEPANOL DCFAS-N is comingled palm kernel oil/coconut oil-derived 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 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 border="0"> <tr> <td>Appearance at 25°C .....</td> <td>White needles to breakable lumps</td> </tr> <tr> <td>Actives, %.....</td> <td>90.0 Min.</td> </tr> <tr> <td>pH, 1% aqueous.....</td> <td>10.5</td> </tr> <tr> <td>Moisture, %.....</td> <td>6.0 Max.</td> </tr> <tr> <td>Color, %T, (5% active in water).....</td> <td>90.0 Min.</td> </tr> <tr> <td>Density (approximate), 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, dynes/cm.....</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 needles to breakable lumps	Actives, %.....	90.0 Min.	pH, 1% aqueous.....	10.5	Moisture, %.....	6.0 Max.	Color, %T, (5% active in water).....	90.0 Min.	Density (approximate), g/mL (lbs/U.S. gal) .....	0.60 (5.0)	Critical Micelle Concentration, mg/L.....	145.6	Surface Tension at 25°C, dynes/cm.....	24.6	Flash Point, °C (°F) .....	>94 (>201)	RVOC, US EPA, %.....	0
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Environmental Effects	STEPANOL DCFAS-N is biodegradable. A detailed biodegradability statement is available upon request.																				
Health Effects	STEPANOL DCFAS-N 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-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 bags or PP Supersacks.</p>																				
July 2024 Supersedes: October 2022	STEPANOL® is a registered trademark of Stepan Company.																				



**Non-Bulk Storage Recommendations:** STEPANOL DCFAS-N should be stored in closed containers and kept in a cool, dry place away from incompatible materials (see Section 10 of the SDS). If material is frozen it should be heated gently and stirred to ensure it is homogeneous prior to use.

Workplace Exposure

Occupational exposure can occur primarily through skin contact or via inhalation of vapors and mists. Engineering controls, personal protective equipment, and other workplace safety practices should be used to control these exposures. See SDS for more information.

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](mailto:techserv@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 (SDS) is available upon request.



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