

Product Bulletin

Product Name	BIO-SOFT® N45-7
Chemical Description	Fatty Alcohol Ethoxylate
CAS Registry Number	68951-67-7
INCI Name	C14-15 Pareth-7
Applications	Laundry Powders, Laundry Pre-Spotters, I&I Laundry
Typical Properties	<p>Appearance at 40 °C Clear to Hazy Liquid</p> <p>Actives, % 100</p> <p>Hydroxyl Value, mg KOH/g 103</p> <p>Color APHA 50 max.</p> <p>HLB 11.6</p> <p>Molecular Weight, g/mol 546</p> <p>EO Content, weight % 56</p> <p>Melting Point, °C (°F) 23 (73)</p> <p>Viscosity at 45 °C, cps 50</p> <p>Flash Point (PMCC), °C (°F) >100 (>212)</p> <p>Cloud Point (1% in Water), °C (°F) 46 (115)</p> <p>Pour Point, °C (°F) 24 (75)</p> <p>Density at 40 °C, g/mL (lbs/U.S. gal) 0.97 (8.07)</p> <p>Density at 50 °C, g/mL (lbs/U.S. gal) 0.96 (8.05)</p> <p>Critical Micelle Concentration (CMC), mg/L 1.735</p> <p>Surface Tension at 0.1% active, mN/m 29.73</p> <p>Draves Wetting at 25 °C (0.1% in Water), sec 14.8</p> <p>Draves Wetting at 25 °C (1.0% in Water), sec 7.04</p>
Environmental Effects	The product is expected to be readily biodegradable. Additional information available upon request.
Health Effects	BIO-SOFT N45-7 is considered to be slightly toxic orally (LD50 = 1,000 mg/kg). Undiluted product may cause moderate skin and moderate to severe eye irritation.
Storage & Handling	<p>Normal safety precautions (i.e., gloves and safety goggles) should be employed when handling BIO-SOFT N45-7. Contact with eyes and skin should be avoided.</p> <p>It is recommended that BIO-SOFT N45-7 be stored in sealed containers and kept in a cool, dry place.</p> <p><u>Bulk Storage Information:</u> BIO-SOFT N45-7 can be stored in vessels of 316 stainless steel, but carbon steel is adequate. Material should be stored between 37-55 °C (98-131 °F).</p> <p><u>Standard Packaging:</u> BIO-SOFT N45-7 is available in bulk, 55 gallon drums and tote quantities.</p>



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 practices should be used to control these exposures.

Clearances

The international inventories (country clearances) of BIO-SOFT N45-7 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.

BIO-SOFT N45-7 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.



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